

Appendix A

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5

File: Ravi Shanker

```
import java.awt.*;
10 import java.applet.*;
import java.lang.*;
import netscape.javascript.*;
import java.io.*;
import java.net.*;
15 import java.util.*;

import com.oreilly.servlet.HttpMessage;

public class ChatClient extends Applet implements ISession
20 {
    netscape.javascript.JSObject      m_JScriptWin;

    public String      m_strMessageHandler;
    public String      m_strErrorHandler;
25 public String      m_EtMh;
    public String      m_SponsorHandler;
    public String      m_LinksHandler;
    public String      m_AdHandler;
    public String      m_CommentsHandler;
30 public String      m_CaptionHandler;
    public String      m_TimeHandler      ;
    public String      m_ClipSource;
    public String      m_isAppletLoad;

35 public Vector CurrentVector ;

    public int StartTime=0;
    public int SponsorCurrent = -1;
    public int LinkCurrent = -1;
40 public int BannerCurrent = -1;
    public int CaptionCurrent = -1;
    public int CommentCurrent = -1;

    public int WhatSec = -1;
45 public void init()
```

```
{
    super.init();

    StartTime=0;
5    SponsorCurrent = -1;
    LinkCurrent = -1;
    BannerCurrent = -1;
    CaptionCurrent = -1;
    CommentCurrent = -1;
10    WhatSec=-1;
    // Get the JavaScript window that will have the various scripts that
    // this applet will call.
    m_JScriptWin = netscape.javascript.JSObject.getWindow(this);
15
    m_strMessageHandler = getParameter("MessageHandler");
    m_EtMh = getParameter("ElapsedTimeMessageHandler");
    m_strErrorHandler = getParameter("ErrorHandler");

    m_SponsorHandler = getParameter("SponsorHandler");
    m_LinksHandler = getParameter("LinksHandler");
    m_AdHandler = getParameter("AdHandler");
    m_CommentsHandler = getParameter("CommentsHandler");
    m_CaptionHandler = getParameter("CaptionHandler");
25    // Set the Javascript to handle if the applet has done it's init()
    m_isAppletLoad = getParameter("isAppletLoad");

    m_TimeHandler = getParameter("TimeHandler");

30    m_ClipSource = getParameter("ClipSource");

    getNextMessage(0,10,m_ClipSource);
    StartTime=10;

35    if (m_JScriptWin != null)
    {
        String Arguments[] = {"Done"};
        m_JScriptWin.call(m_isAppletLoad, Arguments);
        //      System.out.println("setting time here"+seconds);
40    }
}

public void setStartTime()
{
45    int seconds = 0;
try
```

```
{
URL url = new URL("http://blanche.tcn.net:8090/servlet/TimeServlet");
HttpMessage msg = new HttpMessage(url);

5      Properties props = new Properties();
      props.put("ClipSource",m_ClipSource);

      InputStream in = msg.sendPostMessage(props);

10     //InputStream in = msg.sendGetMessage();

      DataInputStream data = new DataInputStream(
          new BufferedInputStream(in));
      String lastMessage = data.readLine();
15     seconds = Integer.parseInt(lastMessage);

    }
    catch (SocketException e)
    {
20      // Can't connect to host, report it and wait before trying again
      System.out.println("Can't connect to host: " + e.getMessage());
    }
    catch (FileNotFoundException e)
    {
25      // Servlet doesn't exist, report it and wait before trying again
      System.out.println("Resource not found: " + e.getMessage());
    }
    catch (Exception e)
    {
30      // Some other problem, report it and wait before trying again
      System.out.println("General exception: " +
          e.getClass().getName() + ": " + e.getMessage());
    }
    finally
35    {
        StartTime = seconds ;
        if (m_JScriptWin != null)
        {
            String Arguments[] = {seconds+""};
40            m_JScriptWin.call(m_TimeHandler, Arguments);
            //      System.out.println("setting time here"+seconds);
        }
        getNextMessage(seconds,seconds+10,m_ClipSource);
        StartTime+=10;
45    }
}
```

```
    }

    public void start()
    {
5      }

    public void stop()
    {
10   }

    public int BeginSession(String strAuthor, String strOptions, String strType, String
strMessage)
    {
15      return SendMessage(strAuthor, strType, strMessage);
    }

    public int EndSession(String strAuthor, String strType, String strMessage)
    {
20      return SendMessage(strAuthor, strType, strMessage);
    }

    public int SendMessage(String strAuthor, String strType, String strMessage)
    {
25      if (strAuthor.length() < 0)
          return HandleSessionError(1, "Invalid author specified.");

          if (strMessage.length() < 0)
              return HandleSessionError(2, "Empty message");
30      if (m_strMessageHandler == null)
          {
              m_strMessageHandler = "HandleSessionMessage";
          }
35      if (m_JScriptWin != null)
          {
              String Arguments[] = {strMessage};
              m_JScriptWin.call(m_strMessageHandler, Arguments);
40      }

          return 0;
    }

45 public void SendElapsedTime(String Time)
    {
```

```
int m_time=0;
try
{
    m_time = Integer.parseInt(Time)/1000;
5    }
catch(NumberFormatException nfe)
{
    System.out.println("The Error"+nfe.toString());
    m_time=0;
10    }
//System.out.println("time sent by applet = "+m_time);
HandleEvent(m_time);
//Object Arguments[] = {(new Integer(m_time))};
//    m_JScriptWin.call(m_EtMh, Arguments);
15    //return 0;
}

public void HandleEvent(int ETime)
20    {

    if(WhatSec < ETime)
    {
        Vector _Sponsor = (Vector) CurrentVector.elementAt(0);
        //System.out.println("size of the vector is = "+_Sponsor.size()+"");
25        Vector _Links = (Vector) CurrentVector.elementAt(1);
        //System.out.println("size of the links vector is = "+_Links.size()+"");
        Vector _banner = (Vector) CurrentVector.elementAt(2);

30        Vector _caption = (Vector) CurrentVector.elementAt(3);

        Vector _comment = (Vector) CurrentVector.elementAt(4);

        if(_Sponsor != null)
35        {
            for(int i = 0; i < _Sponsor.size();i++)
            {
                Vector Sp1 =(Vector) _Sponsor.elementAt(i);

40                int xy =((Integer)Sp1.elementAt(0)).intValue();
                //System.out.println("xy = "+xy+"");
                if(xy == ETime && SponsorCurrent != xy)
                {
45                    if (m_JScriptWin != null)
                    {
```

```

SponsorCurrent=xy;
String Arguments[] =
{Sp1.elementAt(1)+"" ,Sp1.elementAt(2)+"" ,Sp1.elementAt(3)+""};
m_JScriptWin.call(m_SponsorHandler, Arguments);
5      }
    }
    else if(xy > ETime)
    {
        break;
10    }
    }// end for 1st for
} // end of 1st if

// for links
15 if (_Links != null)
{
    for(int i = 0; i < _Links.size();i++)
    {
20        Vector Sp2 =(Vector) _Links.elementAt(i);

        if(Sp2 != null)
        {
            int xz =((Integer)Sp2.elementAt(0)).intValue();
25 //System.out.println("xy = "+xy+"");
            if(xz == ETime)
            {
                if (m_JScriptWin != null)
                {
30                    //System.out.println("xy = "+xz+"");
                    String msg3="";
                    if(    LinkCurrent == xz)
                    {
                        msg3="old";
35                    }
                    else
                    {
                        LinkCurrent=xz;
                        msg3="new";
40                    }
                    String Arguments[] =
{Sp2.elementAt(1)+"" ,Sp2.elementAt(2)+"" , msg3+""};
                    m_JScriptWin.call(m_LinksHandler,
45 Arguments);
                }
            }
        }
    }
}
```

```

                                else if(xz > ETime)
                                {
                                    break;
                                }
5      }
      } // end of 2nd for
    } // end of 1st if
      // for ads
    if (_banner != null)
10   {
        for(int i = 0; i < _banner.size();i++)
        {
            Vector Sp3 =(Vector) _banner.elementAt(i);

15            int az =((Integer)Sp3.elementAt(0)).intValue();
            //System.out.println("xy = "+xy+"");
            if(az == ETime && BannerCurrent != az)
            {
                if (m_JScriptWin != null)
20                {
                    BannerCurrent=az;
                    String Arguments[] =
{Sp3.elementAt(1)+"" ,Sp3.elementAt(2)+"" ,Sp3.elementAt(3)+""};
                    m_JScriptWin.call(m_AdHandler, Arguments);
25                }
            }
            else if(az > ETime)
            {
                break;
30            }
        }
    }

35    // for Caption
    if (_caption != null)
    {
        for(int i = 0; i < _caption.size();i++)
40        {

            Vector Sp4 =(Vector) _caption.elementAt(i);

            if(Sp4 != null)
            {
45                int nn =((Integer)Sp4.elementAt(0)).intValue();
                //System.out.println("xy = "+xy+"");
            }
        }
    }
}
```

```

        if(nn == ETime)
        {
            if (m_JScriptWin != null)
            {
2         //System.out.println("xy = "+xz+"");
                String msg3="";
                if(    CommentCurrent == nn)
                {
                    msg3="old";
10                }
                else
                {
                    CommentCurrent=nn;
                    msg3="new";
15                }
                String Arguments[] = {Sp4.elementAt(1)+"",
                    msg3+""};
                m_JScriptWin.call(m_CaptionHandler,
20                Arguments);
            }
        }
        else if(nn > ETime)
        {
            break;
25        }
    }
} // end of for
} // end of if

30 // for comment
if (_comment != null)
{
    for(int i = 0; i < _comment.size();i++)
35    {

        Vector Sp5 =(Vector) _comment.elementAt(i);

        if(Sp5 != null)
        {
40            int mm =((Integer)Sp5.elementAt(0)).intValue();
            //System.out.println("xy = "+xy+"");
            if(mm == ETime)
            {
45                if (m_JScriptWin != null)
                {

```



```

//System.out.println("xy = "+xz+"");
String msg3="";
if(    CaptionCurrent == mm)
{
5         msg3="old";
}
else
{
10         CaptionCurrent=mm;
        msg3="new";
}
String Arguments[] = {Sp5.elementAt(1)+"",
msg3+""};
15  m_JScriptWin.call(m_CommentsHandler,
        Arguments);
        }
    }
    else if(mm > ETime)
    {
20         break;
    }
}
} // end of for
} // end of if
25 // if the time left for the next call is 1 mins
if(StartTime-ETime <=1)
{
    getNextMessage(StartTime,StartTime+10,m_ClipSource);
30     StartTime=StartTime+10;
}

    WhatSec = ETime;
}
35 }

public void getNextMessage(int _Start, int _End, String ClipSrc)
{
    //System.out.println("in get next message durin init");
40    Object obj=null;
    try
    {
        URL url = new URL("http://blanche.tcn.net:8090/servlet/ILoveTvLiveServlet");

```

```
//URL url = new
URL("http://torlife.wiredkingdom.com/servlet/ILoveTvLiveServlet?ElapsedTimeStart="+_Start+"&ElapsedTimeEnd="+_End+"&ClipSource="+ClipSrc);
    HttpMessage msg = new HttpMessage(url);
5
        Properties props = new Properties();

        props.put("ElapsedTimeStart",_Start+"");
        props.put("ElapsedTimeEnd",_End+"");
10    props.put("ClipSource",ClipSrc);

        InputStream in = msg.sendPostMessage(props);

        //InputStream in = msg.sendGetMessage();
15
        ObjectInputStream result = new ObjectInputStream(in);

        obj = result.readObject();
    }
20    catch (SocketException e)
    {
        // Can't connect to host, report it and wait before trying again
        System.out.println("Can't connect to host: " + e.getMessage());
    }
25    catch (FileNotFoundException e)
    {
        // Servlet doesn't exist, report it and wait before trying again
        System.out.println("Resource not found: " + e.getMessage());
    }
30    catch (Exception e)
    {
        // Some other problem, report it and wait before trying again
        System.out.println("General exception: " +
            e.getClass().getName() + ": " + e.getMessage());
35    }
    CurrentVector=(Vector)obj;
}

public int HandleSessionError(int iNumber, String strDescription)
40    {
        //System.out.println(iNumber + " : " + strDescription);

        if (m_strErrorHandler == null)
        {
45            m_strErrorHandler = "HandleSessionError";
        }
    }
}
```

```

        if (m_JScriptWin != null)
        {
            String Arguments[] = {Integer.toString(iNumber), strDescription};
5           m_JScriptWin.call(m_strErrorHandler, Arguments);
        }

        return iNumber;
    }
10
}
```

## Appendix B

### Excalibur

#### 5 File

VERSION 5.00

Object = "{648A5603-2C6E-101B-82B6-000000000014}#1.1#0"; "MSCOMM32.OCX"

Object = "{248DD890-BB45-11CF-9ABC-0080C7E7B78D}#1.0#0"; "MSWINSCK.OCX"

10 Begin VB.Form FrmLine21 Watch

    Caption      = "Line21 Watch"

    ClientHeight = 2655

    ClientLeft   = 60

    ClientTop    = 375

15     ClientWidth = 11595

    LinkTopic    = "Form1"

    MaxButton    = 0 'False

    MinButton    = 0 'False

    ScaleHeight  = 2655

20     ScaleWidth  = 11595

    StartPosition = 3 'Windows Default

    Begin VB.CheckBox Field2

        Caption      = "Field 2"

        Enabled      = 0 'False

25         Height     = 255

        Left        = 9360

        TabIndex     = 7

        Top          = 2400

        Width        = 975

30     End

    Begin VB.CheckBox Field1

        Caption      = "Field 1"

        Enabled      = 0 'False

        Height       = 255

35         Left       = 9360

        TabIndex     = 6

        Top          = 2040

        Width        = 855

    End

40     Begin VB.CheckBox Protocol

        Caption      = "Protocol"

        Enabled      = 0 'False

        Height       = 255

        Left         = 8160

45         TabIndex   = 5

        Top          = 2040

```
        Width      = 975
    End
    Begin VB.ComboBox CB_Port
        Height      = 315
5       Left       = 6960
        TabIndex    = 4
        Text       = "Combo1"
        Top        = 2040
        Width      = 975
10      End
        Begin VB.TextBox EB_IP
            Height    = 285
            Left      = 5400
            TabIndex  = 3
15          Top     = 2040
            Width    = 1335
        End
        Begin MSWinsockLib.Winsock Winsock1
            Left      = 960
20          Top     = 2040
            _ExtentX  = 741
            _ExtentY  = 741
            _Version   = 393216
        End
25      Begin MSCommLib.MSComm MSComm1
            Left      = 240
            Top       = 2040
            _ExtentX  = 847
            _ExtentY  = 847
30          _Version = 393216
            DTREnable = -1 'True
            InputLen  = 1
            RThreshold = 2
            SThreshold = 1
35      End
        Begin VB.CommandButton B_Watch
            Caption   = "Watch"
            Height    = 495
            Left      = 2520
40          TabIndex = 2
            Top       = 2040
            Width     = 1455
        End
        Begin VB.ComboBox CB_ComF1
45      Height    = 315
            Left     = 4320
```

```

        Style      = 2 'Dropdown List
        TabIndex   = 1
        Top        = 2040
        Width      = 855
5    End
    Begin VB.ListBox LB_Triggers
        BeginProperty Font
            Name      = "Courier New"
            Size      = 8.25
10         Charset   = 0
            Weight    = 400
            Underline  = 0 'False
            Italic     = 0 'False
            Strikethrough = 0 'False
15         EndProperty
            Height    = 1740
            Left      = 120
            TabIndex  = 0
            Top       = 120
20         Width     = 11175
        End
    End
    Attribute VB_Name = "FrmLine21Watch"
    Attribute VB_GlobalNameSpace = False
25    Attribute VB_Creatable = False
    Attribute VB_PredeclaredId = True
    Attribute VB_Exposed = False
    Dim Loading As Boolean
    Dim running As Boolean
30    Dim COMF As String
    Dim SyncFlag As Boolean
    Dim SyncCount As Integer
    Dim mes As String * 1024

35    Option Explicit

    Private Sub B_Watch_Click()
        If running = False Then
            B_Watch.Caption = "Stop"
40         LB_Triggers.Clear
            Line21Decode 0, 0, mes
            SyncFlag = False
            SyncCount = 0
            running = True
45         If COMF <> "LAN" Then
            MSComm1.CommPort = Val(Right(COMF, 1))

```

```
MSComm1.Settings = "9600,N,8,1"
MSComm1.PortOpen = True
Else
    Winsock1.RemoteHost = EB_IP.Text
5    Winsock1.RemotePort = CB_Port.Text
    Winsock1.Connect
End If
Else
    B_Watch.Caption = "Watch"
10    running = False
    If COMF <> "LAN" Then
        MSComm1.PortOpen = False
    Else
        Winsock1.Close
15    End If
End If

End Sub

20 Private Sub CB_ComF1_Click()
    Dim I As Integer
    Dim temp As String

    If Loading = False Then
25        Loading = True
        COMF = CB_ComF1.List(CB_ComF1.ListIndex)
        If COMF = "LAN" Then
            EB_IP.Enabled = True
            CB_Port.Enabled = True
30        Else
            EB_IP.Enabled = False
            CB_Port.Enabled = False
        End If
        Loading = False
35    End If

End Sub

Private Sub Form_Load()
40    Dim temp As String
    Dim I As Integer

    Loading = True
    running = False
45    COMF = GetSetting(APPNAME, SETTING, TCOMF, "COM1")
    For I = 1 To 4
```

```
temp = "COM" + Format(I)
CB_ComF1.AddItem (temp)
If COMF = temp Then
    CB_ComF1.ListIndex = CB_ComF1.ListCount - 1
5   End If
Next I
CB_ComF1.AddItem ("LAN")
If COMF = "LAN" Then
    CB_ComF1.ListIndex = CB_ComF1.ListCount - 1
10  EB_IP.Enabled = True
    CB_Port.Enabled = True
Else
    EB_IP.Enabled = False
    CB_Port.Enabled = False
15  End If
EB_IP.Text = GetSetting(APPNAME, SETTING, IP, "223.223.223.120")
For I = 2000 To 9000 Step 1000
    CB_Port.AddItem (Format(I))
Next I
20  CB_Port.Text = GetSetting(APPNAME, SETTING, PORT, "3000")
    Loading = False

End Sub

25  Private Sub Form_Unload(Cancel As Integer)
    SaveSetting APPNAME, SETTING, TCOMF, COMF
    SaveSetting APPNAME, SETTING, IP, EB_IP.Text
    SaveSetting APPNAME, SETTING, PORT, CB_Port.Text

30  End Sub

Private Sub MSComm1_OnComm()
    Dim Trig As Long
    Dim status As Integer
    Static Num As Integer
    Static Dat As String
    Dim C0 As Long
    Dim C1 As Long
    Dim C2 As Long
40
    status = MSComm1.CommEvent
    If status = 2 And running = True Then
        If SyncFlag = False Then      'Getting is sync is real ugly
            SyncCount = SyncCount + 1  'We watch for the protocol characters
45  If SyncCount = 1 Then
            MSComm1.InBufferCount = 0
```



```
Else
    Dat = MSComm1.Input          'and keep track of whether data is from
    Select Case Asc(Dat)          'field 1, field 2 or both.
    Case 17, 129                  'We want to start capturing data on field 1
5      Protocol.Value = 1        'if both fields or at the start of the
      If Field1.Value = 0 And Field2.Value = 1 Then
          Num = 3
      Else
          Num = 0
10     End If
      Field1.Value = 1            'field data.
    Case 18, 130
      Protocol.Value = 1
      Num = 0
15     Field2.Value = 1
    Case 148, 28                  'If it is not protocol data then we must
      If SyncCount > 2 And Protocol.Value = 0 Then
          Field1.Value = 1        'decide on the field based on the control
          Num = 1                 'codes.
20     End If
    Case 21, 157, 1, 2, 131, 4, 133, 134, 7, 8, 137, 138, 11, 140, 13, 14, 143
      If SyncCount > 2 And Protocol.Value = 0 Then
          Field2.Value = 1
          Num = 1
25     End If
    Case Else
      Num = Num + 1
    End Select
    If SyncCount > 5 And (Field1.Value = 1 Or Field2.Value = 1) And Num = 2 Then
30     SyncFlag = True
      If Protocol.Value = 1 Then
          MSComm1.InputLen = 3
      Else
          MSComm1.InputLen = 2
35     End If
    End If
    End If
Else
    Dat = MSComm1.Input
40     If Protocol.Value = 1 Then
        C0 = CByte(Asc(Left(Dat, 1)))
        C1 = CByte(Asc(Mid(Dat, 2, 1))) And 127
        C2 = CByte(Asc(Right(Dat, 1))) And 127
    Else
45     If Field1.Value = 1 Then
        C0 = 129
```

```
Else
    C0 = 130
End If
End If
5  Select Case C0
    Case 129, 17
        Trig = Line21Decode(1, C1, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
10        End If
        Trig = Line21Decode(1, C2, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
15    Case 130, 18
        Trig = Line21Decode(2, C1, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
20    Trig = Line21Decode(2, C2, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
    End Select
25    End If
    End If
End Sub

30 Private Sub Winsock1_DataArrival(ByVal bytesTotal As Long)
    Static InputLen As Integer
    Static Num As Integer
    Static Dat As String
    Dim Trig As Long
35    Dim C0 As Long
    Dim C1 As Long
    Dim C2 As Long

    If running = True Then
40        If InputLen < 1 Or InputLen > 3 Then
            InputLen = 1
        End If
        While Winsock1.BytesReceived >= InputLen
            If SyncFlag = False Then      'Getting in sync is real ugly
45                SyncCount = SyncCount + 1    'We watch for the protocol characters
            If SyncCount = 1 Then
```

```
MSComm1.InBufferCount = 0
Else
Winsock1.GetData Dat, , 1      'and keep track of whether data is from
Select Case Asc(Dat)          'field 1, field 2 or both.
5   Case 17, 129              'We want to start capturing data on field 1
    Protocol.Value = 1        'if both fields or at the start of the
    If Field1.Value = 0 And Field2.Value = 1 Then
        Num = 3
    Else
10    Num = 0
    End If
    Field1.Value = 1          'field data.
    Case 18, 130
        Protocol.Value = 1
15    Num = 0
        Field2.Value = 1
    Case 148, 28              'If it is not protocol data then we must
    If SyncCount > 2 And Protocol.Value = 0 Then
        Field1.Value = 1      'decide on the field based on the control
20    Num = 1                  'codes.
    End If
    Case 21, 157, 1, 2, 131, 4, 133, 134, 7, 8, 137, 138, 11, 140, 13, 14, 143
    If SyncCount > 2 And Protocol.Value = 0 Then
        Field2.Value = 1
25    Num = 1
    End If
    Case Else
        Num = Num + 1
    End Select
30   If SyncCount > 5 And (Field1.Value = 1 Or Field2.Value = 1) And Num = 2 Then
        SyncFlag = True
        If Protocol.Value = 1 Then
            InputLen = 3
        Else
35        InputLen = 2
        End If
    End If
End If
Else
40   Winsock1.GetData Dat, , InputLen
    If Protocol.Value = 1 Then
        C0 = CByte(Asc(Left(Dat, 1)))
        C1 = CByte(Asc(Mid(Dat, 2, 1))) And 127
        C2 = CByte(Asc(Right(Dat, 1))) And 127
45   Else
        If Field1.Value = 1 Then
```

```

    C0 = 129
    Else
    C0 = 130
    End If
5  End If
    Select Case C0
    Case 129, 17
        Trig = Line21Decode(1, C1, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
10         LB_Triggers.AddItem (mes)
        End If
        Trig = Line21Decode(1, C2, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
15         LB_Triggers.AddItem (mes)
        End If
    Case 130, 18
        Trig = Line21Decode(2, C1, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
20         LB_Triggers.AddItem (mes)
        End If
        Trig = Line21Decode(2, C2, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
25         LB_Triggers.AddItem (mes)
        End If
    End Select
    End If
    Wend
    End If
30 End Sub
```

Appendix B

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5

Excalibur

File: FrmLine21Watch.frm

```
10  VERSION 5.00
    Object = "{648A5603-2C6E-101B-82B6-000000000014}#1.1#0"; "MSCOMM32.OCX"
    Object = "{248DD890-BB45-11CF-9ABC-0080C7E7B78D}#1.0#0"; "MSWINSCK.OCX"
    Begin VB.Form FrmLine21Watch
        Caption      = "Line21 Watch"
15      ClientHeight = 2655
        ClientLeft   = 60
        ClientTop    = 375
        ClientWidth  = 11595
        LinkTopic    = "Form1"
20      MaxButton    = 0 'False
        MinButton    = 0 'False
        ScaleHeight   = 2655
        ScaleWidth   = 11595
        StartUpPosition = 3 'Windows Default
25      Begin VB.CheckBox Field2
        Caption      = "Field 2"
        Enabled     = 0 'False
        Height      = 255
        Left        = 9360
30      TabIndex    = 7
        Top         = 2400
        Width       = 975
    End
    Begin VB.CheckBox Field1
35      Caption      = "Field 1"
        Enabled     = 0 'False
        Height      = 255
        Left        = 9360
        TabIndex    = 6
40      Top         = 2040
        Width       = 855
    End
    Begin VB.CheckBox Protocol
45      Caption      = "Protocol"
        Enabled     = 0 'False
        Height      = 255
```

```

    Left      = 8160
    TabIndex  = 5
    Top       = 2040
    Width     = 975
5  End
Begin VB.ComboBox CB_Port
    Height     = 315
    Left       = 6960
    TabIndex   = 4
10   Text     = "Combo1"
    Top        = 2040
    Width      = 975
End
Begin VB.TextBox EB_IP
15   Height   = 285
    Left      = 5400
    TabIndex  = 3
    Top       = 2040
    Width     = 1335
20 End
Begin MSWinsockLib.Winsock Winsock1
    Left      = 960
    Top       = 2040
    _ExtentX  = 741
25   _ExtentY = 741
    _Version  = 393216
End
Begin MSCommLib.MSComm MSComm1
30   Left     = 240
    Top       = 2040
    _ExtentX  = 847
    _ExtentY  = 847
    _Version  = 393216
    DTREnable = -1 'True
35   InputLen = 1
    RThreshold = 2
    SThreshold = 1
End
Begin VB.CommandButton B_Watch
40   Caption   = "Watch"
    Height     = 495
    Left       = 2520
    TabIndex   = 2
    Top        = 2040
45   Width     = 1455
End
```

```
Begin VB.ComboBox CB_ComF1
    Height    = 315
    Left      = 4320
    Style     = 2 'Dropdown List
5    TabIndex = 1
    Top       = 2040
    Width     = 855
End
Begin VB.ListBox LB_Triggers
10    BeginProperty Font
        Name      = "Courier New"
        Size      = 8.25
        Charset   = 0
        Weight    = 400
15    Underline = 0 'False
        Italic     = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height    = 1740
20    Left     = 120
    TabIndex  = 0
    Top       = 120
    Width     = 11175
End
25 End
Attribute VB_Name = "FrmLine21Watch"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
30 Attribute VB_Exposed = False
Dim Loading As Boolean
Dim running As Boolean
Dim COMF As String
Dim SyncFlag As Boolean
35 Dim SyncCount As Integer
Dim mes As String * 1024

Option Explicit

40 Private Sub B_Watch_Click()
    If running = False Then
        B_Watch.Caption = "Stop"
        LB_Triggers.Clear
        Line21Decode 0, 0, mes
45    SyncFlag = False
    SyncCount = 0
```

```
running = True
If COMF <> "LAN" Then
    MSComm1.CommPort = Val(Right(COMF, 1))
    MSComm1.Settings = "9600,N,8,1"
5    MSComm1.PortOpen = True
Else
    Winsock1.RemoteHost = EB_IP.Text
    Winsock1.RemotePort = CB_Port.Text
    Winsock1.Connect
10    End If
Else
    B_Watch.Caption = "Watch"
    running = False
    If COMF <> "LAN" Then
15        MSComm1.PortOpen = False
    Else
        Winsock1.Close
    End If
End If
20    End Sub

Private Sub CB_ComF1_Click()
    Dim I As Integer
25    Dim temp As String

    If Loading = False Then
        Loading = True
        COMF = CB_ComF1.List(CB_ComF1.ListIndex)
30    If COMF = "LAN" Then
        EB_IP.Enabled = True
        CB_Port.Enabled = True
    Else
        EB_IP.Enabled = False
35    CB_Port.Enabled = False
    End If
    Loading = False
End If

40    End Sub

Private Sub Form_Load()
    Dim temp As String
    Dim I As Integer
45    Loading = True
```



```
running = False
COMF = GetSetting(APPNAME, SETTING, TCOMF, "COM1")
For I = 1 To 4
    temp = "COM" + Format(I)
5    CB_ComF1.AddItem (temp)
    If COMF = temp Then
        CB_ComF1.ListIndex = CB_ComF1.ListCount - 1
    End If
Next I
10    CB_ComF1.AddItem ("LAN")
    If COMF = "LAN" Then
        CB_ComF1.ListIndex = CB_ComF1.ListCount - 1
        EB_IP.Enabled = True
        CB_Port.Enabled = True
15    Else
        EB_IP.Enabled = False
        CB_Port.Enabled = False
    End If
    EB_IP.Text = GetSetting(APPNAME, SETTING, IP, "223.223.223.120")
20    For I = 2000 To 9000 Step 1000
        CB_Port.AddItem (Format(I))
    Next I
    CB_Port.Text = GetSetting(APPNAME, SETTING, PORT, "3000")
    Loading = False
25
End Sub

Private Sub Form_Unload(Cancel As Integer)
    SaveSetting APPNAME, SETTING, TCOMF, COMF
30    SaveSetting APPNAME, SETTING, IP, EB_IP.Text
    SaveSetting APPNAME, SETTING, PORT, CB_Port.Text

End Sub

35 Private Sub MSComm1_OnComm()
    Dim Trig As Long
    Dim status As Integer
    Static Num As Integer
    Static Dat As String
40    Dim C0 As Long
    Dim C1 As Long
    Dim C2 As Long

    status = MSComm1.CommEvent
45    If status = 2 And running = True Then
        If SyncFlag = False Then 'Getting is sync is real ugly
```

```
SyncCount = SyncCount + 1      'We watch for the protocol characters
If SyncCount = 1 Then
    MSComm1.InBufferCount = 0
Else
5   Dat = MSComm1.Input          'and keep track of whether data is from
    Select Case Asc(Dat)         'field 1, field 2 or both.
        Case 17, 129            'We want to start capturing data on field 1
            Protocol.Value = 1   'if both fields or at the start of the
            If Field1.Value = 0 And Field2.Value = 1 Then
10              Num = 3
            Else
                Num = 0
            End If
            Field1.Value = 1      'field data.
15          Case 18, 130
            Protocol.Value = 1
            Num = 0
            Field2.Value = 1
            Case 148, 28         'If it is not protocol data then we must
20              If SyncCount > 2 And Protocol.Value = 0 Then
                Field1.Value = 1  'decide on the field based on the control
                Num = 1          'codes.
            End If
            Case 21, 157, 1, 2, 131, 4, 133, 134, 7, 8, 137, 138, 11, 140, 13, 14, 143
25              If SyncCount > 2 And Protocol.Value = 0 Then
                Field2.Value = 1
                Num = 1
            End If
            Case Else
30              Num = Num + 1
            End Select
            If SyncCount > 5 And (Field1.Value = 1 Or Field2.Value = 1) And Num = 2 Then
                SyncFlag = True
                If Protocol.Value = 1 Then
35                  MSComm1.InputLen = 3
                Else
                    MSComm1.InputLen = 2
                End If
            End If
40          End If
        Else
            Dat = MSComm1.Input
            If Protocol.Value = 1 Then
                C0 = CByte(Asc(Left(Dat, 1)))
45                C1 = CByte(Asc(Mid(Dat, 2, 1))) And 127
                C2 = CByte(Asc(Right(Dat, 1))) And 127
```

```
Else
  If Field1.Value = 1 Then
    C0 = 129
  Else
5    C0 = 130
  End If
End If
Select Case C0
  Case 129, 17
10    Trig = Line21Decode(1, C1, mes)
    If Mid(mes, 1, 1) <> Chr(0) Then
      LB_Triggers.AddItem (mes)
    End If
    Trig = Line21Decode(1, C2, mes)
15    If Mid(mes, 1, 1) <> Chr(0) Then
      LB_Triggers.AddItem (mes)
    End If
  Case 130, 18
    Trig = Line21Decode(2, C1, mes)
20    If Mid(mes, 1, 1) <> Chr(0) Then
      LB_Triggers.AddItem (mes)
    End If
    Trig = Line21Decode(2, C2, mes)
    If Mid(mes, 1, 1) <> Chr(0) Then
25    LB_Triggers.AddItem (mes)
    End If
  End Select
End If
End If
30 End Sub
```

```
Private Sub Winsock1_DataArrival(ByVal bytesTotal As Long)
  Static InputLen As Integer
35  Static Num As Integer
  Static Dat As String
  Dim Trig As Long
  Dim C0 As Long
  Dim C1 As Long
40  Dim C2 As Long

  If running = True Then
    If InputLen < 1 Or InputLen > 3 Then
      InputLen = 1
45  End If
    While Winsock1.BytesReceived >= InputLen
```

```
If SyncFlag = False Then      'Getting in sync is real ugly
    SyncCount = SyncCount + 1    'We watch for the protocol characters
    If SyncCount = 1 Then
        MSComm1.InBufferCount = 0
5    Else
        Winsock1.GetData Dat, , 1    'and keep track of whether data is from
        Select Case Asc(Dat)        'field 1, field 2 or both.
            Case 17, 129            'We want to start capturing data on field 1
                Protocol.Value = 1    'if both fields or at the start of the
10            If Field1.Value = 0 And Field2.Value = 1 Then
                Num = 3
            Else
                Num = 0
            End If
15            Field1.Value = 1        'field data.
            Case 18, 130
                Protocol.Value = 1
                Num = 0
                Field2.Value = 1
20            Case 148, 28            'If it is not protocol data then we must
                If SyncCount > 2 And Protocol.Value = 0 Then
                    Field1.Value = 1    'decide on the field based on the control
                    Num = 1            'codes.
                End If
25            Case 21, 157, 1, 2, 131, 4, 133, 134, 7, 8, 137, 138, 11, 140, 13, 14, 143
                If SyncCount > 2 And Protocol.Value = 0 Then
                    Field2.Value = 1
                    Num = 1
                End If
30            Case Else
                Num = Num + 1
            End Select
            If SyncCount > 5 And (Field1.Value = 1 Or Field2.Value = 1) And Num = 2 Then
                SyncFlag = True
35            If Protocol.Value = 1 Then
                InputLen = 3
            Else
                InputLen = 2
            End If
40            End If
        End If
    Else
        Winsock1.GetData Dat, , InputLen
        If Protocol.Value = 1 Then
45            C0 = CByte(Asc(Left(Dat, 1)))
            C1 = CByte(Asc(Mid(Dat, 2, 1))) And 127
```

```

    C2 = CByte(Asc(Right(Dat, 1))) And 127
Else
    If Field1.Value = 1 Then
        C0 = 129
5      Else
        C0 = 130
    End If
End If
Select Case C0
10   Case 129, 17
        Trig = Line21Decode(1, C1, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
15   Case 129, 17
        Trig = Line21Decode(1, C2, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
20   Case 130, 18
        Trig = Line21Decode(2, C1, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
25   Case 130, 18
        Trig = Line21Decode(2, C2, mes)
        If Mid(mes, 1, 1) <> Chr(0) Then
            LB_Triggers.AddItem (mes)
        End If
    End Select
End If
30   Wend
End If

End Sub

35
```

File: FrmLine21Watch.log

- 5 Line 15: Class MSCommLib.MSComm of control MSComm1 was not a loaded control class.  
Line 18: The property name \_ExtentX in MSComm1 is invalid.  
Line 19: The property name \_ExtentY in MSComm1 is invalid.  
Line 20: The property name \_Version in MSComm1 is invalid.  
Line 21: The property name DTREnable in MSComm1 is invalid.
- 10 Line 22: The property name RThreshold in MSComm1 is invalid.

Microsoft Visual Studio .NET 2003  
Project: FrmLine21Watch  
File: FrmLine21Watch.log  
Line: 22  
Column: 1  
Error: The property name RThreshold in MSComm1 is invalid.

File: Funt.c

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```

#include <windows.h>
10 #include <stdio.h>
#include <string.h>
#include "L21Dec.h"
#include "sMachine.h"

15 extern char MaxLength[CLASSMAX][RECORDMAX];
extern char MinLength[CLASSMAX][RECORDMAX];
extern char XDSMes[CLASSMAX][RECORDMAX][MESLEN];
extern void (*XDSDisp[CLASSMAX][RECORDMAX])();
extern char *CType[];

20 // When we start an XDS record we must remember which class it is from

int XDSBegin(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
25   cStatePtr->XDSClass = (ch - 1) / 2;
   return(TRUE);
}

// We art starting the XDS record so we must remember the record. If the record is
30 // already open then we should give an overwrite error. Prepare the XDS data structure
// for the record.

int XDSSStart(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
35   cStatePtr->XDSRecord = ch;
   if(cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Open == TRUE)
   {
       strcpy(mes,XDSSTART);
       strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
40       strcat(mes,OVERWRITE);
   }
   cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Open = TRUE;
   cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length = 0;
   cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Checksum = cStatePtr-
45 >XDSClass * 2 + 1 + ch;
   return(TRUE);
}
```

```
    }

    // When we continue an XDS record we must save the record type. We check to see if the
    // record is open. If it is not then we give an error message and open it as if this
5    // was a start.

    int XDSCont(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
    {
        cStatePtr->XDSRecord = ch;
10    if(cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Open == FALSE)
        {
            strcpy(mes,XDSSTART);
            strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
            strcat(mes,CONTNOSTART);
15    cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Open = TRUE;
            cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length = 0;
            cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Checksum = cStatePtr-
            >XDSClass * 2 + 1 + ch;
        }
20    return(TRUE);
    }

    // When a character arrives for the XDS record we must add it to the checksum. We check
    // to see if this makes the record longer than the max length for this record. If not
25    // then we store the data for this record and increment the record length.

    int XDSData(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
    {
        cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Checksum += ch;
30    if(cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length <
        MaxLength[cStatePtr->XDSClass][cStatePtr->XDSRecord])
        cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Data[cStatePtr-
        >XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length] = ch;
        cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length++;
35    return(TRUE);
    }

    // When we close an XDS record we must check to see that we have received enough data,
    // that we have not received too much data and that the checksum is valid. Any of these
40    // will cause error messages. If the record is OK then display the XDS data. This is
    // done through a look-up table of routines so each XDS record can be displayed
    // differently.

    int XDSEnd(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
45    {
        cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Open = FALSE;
```



```

    if(cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length <
MinLength[cStatePtr->XDSClass][cStatePtr->XDSRecord])
    {
        strcpy(mes,XDSSTART);
5      strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
        strcat(mes,TOOSHORT);
    }
    else if(cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length >
MaxLength[cStatePtr->XDSClass][cStatePtr->XDSRecord])
10   {
        strcpy(mes,XDSSTART);
        strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
        strcat(mes,TOOLONG);
    }
15   else
    {
        if(((cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Checksum +
XSEND + ch) & 0x7f) != 0)
        {
20      strcpy(mes,XDSSTART);
            strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
            strcat(mes,BADCHECKSUM);
        }
        else
25      XDSDisp[cStatePtr->XDSClass][cStatePtr->XDSRecord](mes, cStatePtr);
    }
    return(TRUE);
}

30 // When we get a control character (0x10 to 0x1f) we must save it so we can use
// it as part of a control pair with the next character.

int ControlSave(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
35   cStatePtr->CurrentCtrl[field - 1] = ch;
    return(TRUE);
}

// For each of the four possible streams for each field we must maintain a buffer of
40 // the characters that have arrived for the stream. We will detect the "end of a caption
// and dump the caption as a message.

int DataSave(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
45   int f, c, m;
```

```
f = field - 1;
c = cStatePtr->Channel[f];
m = cStatePtr->Mode[f];
if(cStatePtr->TextLength[f][c][m] < 255)
5   {
    cStatePtr->Text[f][c][m][cStatePtr->TextLength[f][c][m]] = ch;
    cStatePtr->TextLength[f][c][m]++;
  }
return(TRUE);
10 }

// There are different types of captions. We store the type of caption for the stream.

int PopOnDecode(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
15 {
    int f;

    f = field - 1;
    cStatePtr->Mode[f] = CAP;
20   if(cStatePtr->CurrentCtrl[f] < 0x18)
    {
        cStatePtr->Channel[f] = C1;
        cStatePtr->Type[f][C1] = POPUP;
    }
25   else
    {
        cStatePtr->Channel[f] = C2;
        cStatePtr->Type[f][C2] = POPUP;
    }
30   return(TRUE);
}

int RollUpDecode(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
35 {
    int f, c;

    f = field - 1;
    cStatePtr->Mode[f] = CAP;
    if(cStatePtr->CurrentCtrl[f] < 0x18)
40     c = C1;
    else
        c = C2;
    cStatePtr->Channel[f] = c;
    if(ch == 0x25)
45     cStatePtr->Type[f][c] = ROLLUP2;
    if(ch == 0x26)
```

```
cStatePtr->Type[f][c] = ROLLUP3;
if(ch == 0x27)
    cStatePtr->Type[f][c] = ROLLUP4;
return(TRUE);
5  }

int PaintOnDecode(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int f;
10  f = field - 1;
    cStatePtr->Mode[f] = CAP;
    if(cStatePtr->CurrentCtrl[f] < 0x18)
    {
15  cStatePtr->Channel[f] = C1;
        cStatePtr->Type[f][C1] = PAINTON;
    }
    else
    {
20  cStatePtr->Channel[f] = C2;
        cStatePtr->Type[f][C2] = PAINTON;
    }
    return(TRUE);
}
25

int EndOfCaptionDecode(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int f;
30  f = field - 1;
    cStatePtr->Mode[f] = CAP;
    if(cStatePtr->CurrentCtrl[f] < 0x18)
    {
35  cStatePtr->Channel[f] = C1;
        cStatePtr->Type[f][C1] = POPUP;
    }
    else
    {
40  cStatePtr->Channel[f] = C2;
        cStatePtr->Type[f][C2] = POPUP;
    }
    return(TRUE);
}

45 // If the stream is not a caption stream then it is a text stream and should be marked
    // as such. The type does not apply to the stream if it is a text stream.
```

```
int TextDecode(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int f;
5    f = field - 1;
    cStatePtr->Mode[f] = TXT;
    if(cStatePtr->CurrentCtrl[f] < 0x18)
        cStatePtr->Channel[f] = C1;
10    else
        cStatePtr->Channel[f] = C2;
    return(TRUE);
}

15 // URLs are a special use of the T2 stream. We track the T2 stream outside of the
    // regular text streams so that we can monitor it for the URL checksum which we use
    // to determine the end of the URL.

int URLDecode(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
20 {
    cStatePtr->Mode[0] = TXT;
    cStatePtr->Channel[0] = C2;
    return(TRUE);
}

25 // This is a tricky one. It is possible to change streams with a mid row code. In this
    // case we change where we put text.

int ChannelChange(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
30 {
    int f;

    f = field - 1;
    if((ch >= 0x20) && (ch <= 0x3f))
35 {
        if(cStatePtr->CurrentCtrl[f] < 0x18)
            cStatePtr->Channel[f] = C1;
        else
            cStatePtr->Channel[f] = C2;
40 }
    return(TRUE);
}

45 // This is where we figure out what the current stream is an create a message which
    // includes the stream type, the caption type (if applicable) and the text we have
    // captured for this stream. We will call this if: we get a control pair carriage
```

```
// return, we get a positioning code pair (PAC) or we see a checksum in the URL
// stream.
```

```
int DumpText(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
5  {
    int f, c, m;

    f = field - 1;
    m = cStatePtr->Mode[f];
10  c = cStatePtr->Channel[f];
    if(cStatePtr->TextLength[f][c][m] > 0)
    {
        if(field == FIELD1)
        {
15         if(m == CAP)
            {
                if(c == C1)
                {
                    strcpy(mes, C1START);
20                 strcat(mes, CType[cStatePtr->Type[f][c]]);
                }
                else
                {
                    strcpy(mes, C2START);
25                 strcat(mes, CType[cStatePtr->Type[f][c]]);
                }
            }
        else
        {
30         if(c == C1)
            {
                strcpy(mes, T1START);
                strcat(mes, SEVENSP);
            }
35         else
            {
                strcpy(mes, T2START);
                strcat(mes, SEVENSP);
            }
40         }
        }
    else
    {
        if(m == CAP)
45         {
            if(c == C1)
```

```

    {
        strcpy(mes, C3START);
        strcat(mes, CType[cStatePtr->Type[f][c]]);
    }
5   else
    {
        strcpy(mes, C4START);
        strcat(mes, CType[cStatePtr->Type[f][c]]);
    }
10  }
    else
    {
        if(c == C1)
        {
15      strcpy(mes, T3START);
          strcat(mes, SEVENSP);
        }
        else
        {
20      strcpy(mes, T4START);
          strcat(mes, SEVENSP);
        }
    }
    }
25  cStatePtr->Text[f][c][m][cStatePtr->TextLength[f][c][m]] = 0;
    strcat(mes, cStatePtr->Text[f][c][m]);
    cStatePtr->TextLength[f][c][m] = 0;
    }
    return(TRUE);
30  }
```

File: L21Dec.c

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```
#include "windows.h"
#include "stdio.h"
10 #include "L21Dec.h"
#include "sMachine.h"

extern SVAL DataState[];
extern unsigned char parity[];

15 struct cState CCstate;
struct cState *cStatePtr;

#pragma warning(disable : 4133)

20 BOOL APIENTRY DllMain(HANDLE hInst, DWORD ul_reason_being_called, LPVOID
lpReserved)
{
    return 1;
25 UNREFERENCED_PARAMETER(hInst);
UNREFERENCED_PARAMETER(ul_reason_being_called);
UNREFERENCED_PARAMETER(lpReserved);
}

30 __declspec(dllexport) LONG APIENTRY Line21Decode(long field, unsigned char ch, char
mes[])
{
    int i, j;

35 if(field == 0) // Reset the finite state machine
    {
        cStatePtr = &CCstate;
        cStatePtr->NextState[0] = DataState;
        cStatePtr->NextState[1] = DataState;
40 cStatePtr->Channel[0] = C1;
        cStatePtr->Channel[1] = C1;
        cStatePtr->Mode[0] = CAP;
        cStatePtr->Mode[1] = CAP;
        for(i = 0; i < CLASSMAX; i++)
45     {
        for(j = 0; j < RECORDMAX; j++)
```

```
        cStatePtr->XDS[i][j].Open = FALSE;
    }
}
else if((field == 2) || (field == 1))
5   {
    ch &= 0x7f;
    mes[0] = 0;
    stateMachine(field, ch, mes);
    }
10  return(0);
    }

void stateMachine(long field, unsigned char ch, char mes[])
15  {
    SVAL *cstate;

    /*
    * This is the state machine driver. Each possible branch of a state
    * starts with a test. If the test is passed then the functions of that
    * branch are executed. The end of functions is indicated by a NULL
    * pointer. After the NULL pointer is a pointer to the next state. The
    * whole state is a single array containing sets of, the state test,
    * the functions for that state branch and the next state. The test of the last
    * set must be the default test which always returns true.
    */
    cstate = cStatePtr->NextState[field - 1];
    while(TRUE)
    {
    30  if(cstate++->fptr(field, ch, mes, cStatePtr)) // Do the test for this branch
        {
            while(*cstate->fptr) // Passed so execute all its functions
            {
                cstate++->fptr(field, ch, mes, cStatePtr);
            }
    35  cStatePtr->NextState[field - 1] = (cstate + 1)->dptr; // Then return pointer to the next state
            break;
        }
        else // Failed this branch test so
    40  {
            while(*cstate++->fptr) // Skip over its functions
            ;
            cstate++; // Skip the state change to the
            // start of the next branch set
    45  }
    }
}
```



```
__declspec(dllexport) LONG APIENTRY ShiftRight(unsigned long value, long shift)
{
5   return(value >> shift);
}

__declspec(dllexport) LONG APIENTRY ShiftLeft(unsigned long value, long shift)
{
10  return(value << shift);
}
```

File: L21Dec.def

LIBRARY Line21

5

CODE PRELOAD MOVEABLE DISCARDABLE  
DATA PRELOAD SINGLE

10 EXPORTS  
    Line21Decode  
    ShiftRight  
    ShiftLeft

15

Line21Decode  
ShiftRight  
ShiftLeft

File: L21Dec.h

```
__declspec(dllexport) LONG APIENTRY Line21Decode(long field, unsigned char ch, char
mess[]);
5  __declspec(dllexport) LONG APIENTRY ShiftRight(unsigned long, long);
__declspec(dllexport) LONG APIENTRY ShiftLeft(unsigned long, long);

void stateMachine(long field, unsigned char ch, char mes[]);
void Def(char mes[], struct cState *);
10 void Vcp(char mes[], struct cState *);
void Typ(char mes[], struct cState *);

int XDSSBegin(long field, unsigned char ch, char mes[], struct cState *);
int XDSSStart(long field, unsigned char ch, char mes[], struct cState *);
15 int XDSCont(long field, unsigned char ch, char mes[], struct cState *);
int XDSSStart(long field, unsigned char ch, char mes[], struct cState *);
int XDSDData(long field, unsigned char ch, char mes[], struct cState *);
int XDSEnd(long field, unsigned char ch, char mes[], struct cState *);
int ChannelChange(long field, unsigned char ch, char mes[], struct cState *);
20 int DumpText(long field, unsigned char ch, char mes[], struct cState *);
int ControlSave(long field, unsigned char ch, char mes[], struct cState *);
int PopOnDecode(long field, unsigned char ch, char mes[], struct cState *);
int DataSave(long field, unsigned char ch, char mes[], struct cState *);
int RollUpDecode(long field, unsigned char ch, char mes[], struct cState *);
25 int PaintOnDecode(long field, unsigned char ch, char mes[], struct cState *);
int TextDecode(long field, unsigned char ch, char mes[], struct cState *);
int URLDecode(long field, unsigned char ch, char mes[], struct cState *);

int DefaultTest(long field, unsigned char ch, char mes[], struct cState *);
30 int NullTest(long field, unsigned char ch, char mes[], struct cState *);
int FIXDSTest(long field, unsigned char ch, char mes[], struct cState *);
int ControlTest(long field, unsigned char ch, char mes[], struct cState *);
int XDSSStartTest(long field, unsigned char ch, char mes[], struct cState *);
int XDSContTest(long field, unsigned char ch, char mes[], struct cState *);
35 int XDSEndTest(long field, unsigned char ch, char mes[], struct cState *);
int RollUpTest(long field, unsigned char ch, char mes[], struct cState *);
int PopOnTest(long field, unsigned char ch, char mes[], struct cState *);
int PaintOnTest(long field, unsigned char ch, char mes[], struct cState *);
int EndOfCaptionTest(long field, unsigned char ch, char mes[], struct cState *);
40 int TextModeTest(long field, unsigned char ch, char mes[], struct cState *);
int PACTest(long field, unsigned char ch, char mes[], struct cState *);
int CRTTest(long field, unsigned char ch, char mes[], struct cState *);
int CtrlChangeTest(long field, unsigned char ch, char mes[], struct cState *);
int URLTest(long field, unsigned char ch, char mes[], struct cState *);
45 int URLEndTest(long field, unsigned char ch, char mes[], struct cState *);
```

File: Line21.mak

```
# Microsoft Developer Studio Generated NMAKE File, Format Version 40001
# ** DO NOT EDIT **

5  # TARGETTYPE "Win32 (x86) Dynamic-Link Library" 0x0102

    !IF "$(CFG)" == ""
        CFG=Line21 - Win32 Debug
10  !MESSAGE No configuration specified. Defaulting to Line21 - Win32 Debug.
    !ENDIF

    !IF "$(CFG)" != "Line21 - Win32 Release" && "$(CFG)" != "Line21 - Win32 Debug"
        !MESSAGE Invalid configuration "$(CFG)" specified.
15  !MESSAGE You can specify a configuration when running NMAKE on this makefile
        !MESSAGE by defining the macro CFG on the command line. For example:
        !MESSAGE
        !MESSAGE NMAKE /f "Line21.mak" CFG="Line21 - Win32 Debug"
        !MESSAGE
20  !MESSAGE Possible choices for configuration are:
        !MESSAGE
        !MESSAGE "Line21 - Win32 Release" (based on "Win32 (x86) Dynamic-Link Library")
        !MESSAGE "Line21 - Win32 Debug" (based on "Win32 (x86) Dynamic-Link Library")
        !MESSAGE
25  !ERROR An invalid configuration is specified.
    !ENDIF

    !IF "$(OS)" == "Windows_NT"
        NULL=
30  !ELSE
        NULL=nul
    !ENDIF

    #####
    #####
35  # Begin Project
    # PROP Target_Last_Scanned "Line21 - Win32 Debug"
    RSC=rc.exe
    MTL=mktyplib.exe
    CPP=cl.exe

40  !IF "$(CFG)" == "Line21 - Win32 Release"

        # PROP BASE Use_MFC 0
        # PROP BASE Use_Debug_Libraries 0
45  # PROP BASE Output_Dir "Release"
        # PROP BASE Intermediate_Dir "Release"
```

```
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir "Release"
5 # PROP Intermediate_Dir "Release"
# PROP Target_Dir ""
OUTDIR=.\\Release
INTDIR=.\\Release

10 ALL : "$(OUTDIR)\\Line21.dll"

CLEAN :
    -@erase ".\\Release\\Line21.dll"
    -@erase ".\\Release\\XDSROM.obj"
15    -@erase ".\\Release\\stable.obj"
    -@erase ".\\Release\\L21Dec.obj"
    -@erase ".\\Release\\XDSMessages.obj"
    -@erase ".\\Release\\Tests.obj"
    -@erase ".\\Release\\funct.obj"
20    -@erase ".\\Release\\Parity.obj"
    -@erase ".\\Release\\Line21.lib"
    -@erase ".\\Release\\Line21.exp"

    "$(OUTDIR)" :
25    if not exist "$(OUTDIR)\\$(NULL)" mkdir "$(OUTDIR)"

# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D "NDEBUG" /D
# _WINDOWS" /YX /c
# ADD CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D "NDEBUG" /D "_WINDOWS" /YX
30 /c
CPP_PROJ=/nologo /MT /W3 /GX /O2 /D "WIN32" /D "NDEBUG" /D "_WINDOWS"\\
/Fp"$(INTDIR)\\Line21.pch" /YX /Fo"$(INTDIR)\\/" /c
CPP_OBJS=.\\Release\\
CPP_SBRS=
35 # ADD BASE MTL /nologo /D "NDEBUG" /win32
# ADD MTL /nologo /D "NDEBUG" /win32
MTL_PROJ=/nologo /D "NDEBUG" /win32
# ADD BASE RSC /1 0x409 /d "NDEBUG"
# ADD RSC /1 0x409 /d "NDEBUG"
40 BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
BSC32_FLAGS=/nologo /o"$(OUTDIR)\\Line21.bsc"
BSC32_SBRS=
45 LINK32=link.exe
```

```
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /machine:I386
# ADD LINK32 kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib advapi32.lib
5 shell32.lib ole32.lib oleaut32.lib uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /machine:I386
LINK32_FLAGS=kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib\
advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbc32.lib\
odbccp32.lib /nologo /subsystem:windows /dll /incremental:no\
10 /pdb:"$(OUTDIR)/Line21.pdb" /machine:I386 /def:".L21Dec.def"\
/out:"$(OUTDIR)/Line21.dll" /implib:"$(OUTDIR)/Line21.lib"
DEF_FILE= \
    ".L21Dec.def"
LINK32_OBJS= \
15     "$(INTDIR)/XDSROM.obj" \
        "$(INTDIR)/stable.obj" \
        "$(INTDIR)/L21Dec.obj" \
        "$(INTDIR)/XDSMessages.obj" \
        "$(INTDIR)/Tests.obj" \
20     "$(INTDIR)/funct.obj" \
        "$(INTDIR)/Parity.obj"

"$(OUTDIR)\Line21.dll" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
    $(LINK32) @<<
25     $(LINK32_FLAGS) $(LINK32_OBJS)
    <<

!ELSEIF "$(CFG)" == "Line21 - Win32 Debug"

30     # PROP BASE Use_MFC 0
    # PROP BASE Use_Debug_Libraries 1
    # PROP BASE Output_Dir "Debug"
    # PROP BASE Intermediate_Dir "Debug"
    # PROP BASE Target_Dir ""
35     # PROP Use_MFC 0
    # PROP Use_Debug_Libraries 1
    # PROP Output_Dir "Debug"
    # PROP Intermediate_Dir "Debug"
    # PROP Target_Dir ""
40     OUTDIR=.\\Debug
    INTDIR=.\\Debug

    ALL : "$(OUTDIR)\Line21.dll"

45     CLEAN :
        -@erase ".\\Debug\\vc40.pdb"
```

```

-@erase ".\Debug\vc40.idb"
-@erase ".\Debug\Line21.dll"
-@erase ".\Debug\stable.obj"
-@erase ".\Debug\L21Dec.obj"
5  -@erase ".\Debug\XDSMessages.obj"
-@erase ".\Debug\Tests.obj"
-@erase ".\Debug\Parity.obj"
-@erase ".\Debug\funct.obj"
-@erase ".\Debug\XDSROM.obj"
10 -@erase ".\Debug\Line21.ilk"
-@erase ".\Debug\Line21.lib"
-@erase ".\Debug\Line21.exp"
-@erase ".\Debug\Line21.pdb"

15 "$(OUTDIR)" :
    if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

# ADD BASE CPP /nologo /MTd /W3 /Gm /GX /Zi /Od /D "WIN32" /D "_DEBUG" /D
# _WINDOWS" /YX /c
20 # ADD CPP /nologo /MTd /W3 /Gm /GX /Zi /Od /D "WIN32" /D "_DEBUG" /D
# _WINDOWS" /YX /c
CPP_PROJ=/nologo /MTd /W3 /Gm /GX /Zi /Od /D "WIN32" /D "_DEBUG" /D
# _WINDOWS"
/Fp"$(INTDIR)/Line21.pch" /YX /Fo"$(INTDIR)/" /Fd"$(INTDIR)/" /c
25 CPP_OBJS=.\\Debug/
CPP_SBRS=
# ADD BASE MTL /nologo /D "_DEBUG" /win32
# ADD MTL /nologo /D "_DEBUG" /win32
MTL_PROJ=/nologo /D "_DEBUG" /win32
30 # ADD BASE RSC /I 0x409 /d "_DEBUG"
# ADD RSC /I 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
35 BSC32_FLAGS=/nologo /o"$(OUTDIR)/Line21.bsc"
BSC32_SBRS=
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbccp32.lib /nologo
40 /subsystem:windows /dll /debug /machine:I386
# ADD LINK32 kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib advapi32.lib
shell32.lib ole32.lib oleaut32.lib uuid.lib odbccp32.lib /nologo
/subsystem:windows /dll /debug /machine:I386
LINK32_FLAGS=kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib\
45 advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbccp32.lib\
odbccp32.lib /nologo /subsystem:windows /dll /incremental:yes\

```

```
/pdb:"$(OUTDIR)/Line21.pdb" /debug /machine:I386 /def:".L21Dec.def"\
/out:"$(OUTDIR)/Line21.dll" /implib:"$(OUTDIR)/Line21.lib"
DEF_FILE= \
    ".L21Dec.def"
5  LINK32_OBJS= \
    "$(INTDIR)/stable.obj" \
    "$(INTDIR)/L21Dec.obj" \
    "$(INTDIR)/XDSMessages.obj" \
    "$(INTDIR)/Tests.obj" \
10    "$(INTDIR)/Parity.obj" \
    "$(INTDIR)/funct.obj" \
    "$(INTDIR)/XDSROM.obj"

    "$(OUTDIR)/Line21.dll" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
15    $(LINK32) @<<
    $(LINK32_FLAGS) $(LINK32_OBJS)
    <<

!ENDIF
20
    .c{$(CPP_OBJS)}.obj:
        $(CPP) $(CPP_PROJ) $<

    .cpp{$(CPP_OBJS)}.obj:
25    $(CPP) $(CPP_PROJ) $<

    .cxx{$(CPP_OBJS)}.obj:
        $(CPP) $(CPP_PROJ) $<

30    .c{$(CPP_SBRs)}.sbr:
        $(CPP) $(CPP_PROJ) $<

    .cpp{$(CPP_SBRs)}.sbr:
        $(CPP) $(CPP_PROJ) $<
35    .cxx{$(CPP_SBRs)}.sbr:
        $(CPP) $(CPP_PROJ) $<

#####
40    #####
    # Begin Target

    # Name "Line21 - Win32 Release"
    # Name "Line21 - Win32 Debug"
45    !IF "$(CFG)" == "Line21 - Win32 Release"
```



```
!ELSEIF "$(CFG)" == "Line21 - Win32 Debug"

!ENDIF

5 #####
#####
# Begin Source File

10 SOURCE=.\Tests.c
   DEP_CPP_TESTS=\
       ".\Smachine.h"\
       ".\L21Dec.h"\

15 "$(INTDIR)\Tests.obj" : $(SOURCE) $(DEP_CPP_TESTS) "$(INTDIR)"

# End Source File
20 #####
#####
# Begin Source File

   SOURCE=.\L21Dec.c
25 DEP_CPP_L21DE=\
       ".\L21Dec.h"\
       ".\Smachine.h"\

30 "$(INTDIR)\L21Dec.obj" : $(SOURCE) $(DEP_CPP_L21DE) "$(INTDIR)"

# End Source File
#####
35 #####
# Begin Source File

   SOURCE=.\Parity.c

40 "$(INTDIR)\Parity.obj" : $(SOURCE) "$(INTDIR)"

# End Source File
#####
45 #####
# Begin Source File
```

```
SOURCE=.\stable.c
DEP_CPP_STABL=\
    ".\Smachine.h"\
5      ".\L21Dec.h"\

"$(INTDIR)\stable.obj" : $(SOURCE) $(DEP_CPP_STABL) "$(INTDIR)"

10  # End Source File
    #####
    #####
    # Begin Source File

15  SOURCE=.\funct.c
    DEP_CPP_FUNCT=\
        ".\L21Dec.h"\
        ".\Smachine.h"\
20

"$(INTDIR)\funct.obj" : $(SOURCE) $(DEP_CPP_FUNCT) "$(INTDIR)"

25  # End Source File
    #####
    #####
    # Begin Source File

30  SOURCE=.\L21Dec.def

    !IF "$(CFG)" == "Line21 - Win32 Release"

    !ELSEIF "$(CFG)" == "Line21 - Win32 Debug"
35  !ENDIF

    # End Source File
    #####
    #####
40  # Begin Source File

    SOURCE=.\XDSROM.c
    DEP_CPP_XDSRO=\
45      ".\L21Dec.h"\
        ".\Smachine.h"
```

```
"$(INTDIR)\XDSROM.obj" : $(SOURCE) $(DEP_CPP_XDSRO) "$(INTDIR)"
```

5

```
# End Source File
```

```
#####
```

```
#####
```

```
# Begin Source File
```

10

```
SOURCE=. \XDSMessages.c
```

```
DEP_CPP_XDSME=\
```

```
    ".\L21Dec.h"\
```

```
    ".\Smachine.h"\
```

15

```
"$(INTDIR)\XDSMessages.obj" : $(SOURCE) $(DEP_CPP_XDSME) "$(INTDIR)"
```

20

```
# End Source File
```

```
# End Target
```

```
# End Project
```

```
#####
```

```
#####
```

25

#####

[illegible]

```
/MT /W3 /GX /O2 /D "WIN32" /D "NDEBUG" /D "_WINDOWS" /Fp"Release/Line21.pch"
/YX /Fo"Release/" /c __/nologo /D "NDEBUG" /win32 __/l 0x409 /d "NDEBUG" __/nologo
/o"Release/Line21.bsc" __ÿ0_kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbccp32.lib /nologo
5 /subsystem:windows /dll /incremental:no /pdb:"Release/Line21.pdb" /machine:I386
/def:".\\L21Dec.def" /out:"Release/Line21.dll" /implib:"Release/Line21.lib"
__J:\\Vb60\\Line21\\Tests.c __J:\\Vb60\\Line21\\L21Dec.c __J:\\Vb60\\Line21\\Parity.c __J:\\Vb6
0\\Line21\\stable.c __J:\\Vb60\\Line21\\funct.c __J:\\Vb60\\Line21\\L21Dec.def __J:\\Vb60\\Line21\\
XDSROM.c __J:\\Vb60\\Line21\\XDSMessages.c __Line21 - Win32 Release
10 Line21.mak __CProject_Line21 - Win32 Release_Line21 - Win32 Release_ê __Line21 -
Win32 Debug_ê __SSBR __CTargetItem __SSBR __.\\Tests.c_
CFileItem __SSBR
.\\L21Dec.c_ CFileItem __SSBR
.\\Parity.c_ CFileItem __SSBR
15 .\\stable.c_ CFileItem __SSBR .\\funct.c_ CFileItem __SSBR.\\L21Dec.def_
CFileItem __SSBR
.\\XDSROM.c_ CFileItem __SSBR.\\XDSMessages.c_
CFileItem __SSBR_dep __CDependencyContainer __SSBR
Smachine.h __CDependencyFile __SSBR_L21Dec.h __CDependencyFile __SSBR __DJW_
20 dep __CDependencyContainer __SSBR
Smachine.h __CDependencyFile __SSBR_L21Dec.h __CDependencyFile __SSBR __DJW_
DJW __DJWE& Ççst¥m-.\\0123456789
__m_LINE21 - WIN32 DEBUG __{/nologo /MTd /W3 /Gm /GX /Zi /Od /D "WIN32" /D
"DEBUG" /D "_WINDOWS" /Fp"Debug/Line21.pch" /YX /Fo"Debug/" /Fd"Debug/" /c
25 __/nologo /D "DEBUG" /win32 __/l 0x409 /d "DEBUG" __/nologo /o"Debug/Line21.bsc"
__ÿ2_kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbccp32.lib /nologo /subsystem:windows /dll
/incremental:yes /pdb:"Debug/Line21.pdb" /debug /machine:I386 /def:".\\L21Dec.def"
/out:"Debug/Line21.dll" /implib:"Debug/Line21.lib"
30 __J:\\Vb60\\Line21\\Tests.c __J:\\Vb60\\Line21\\L21Dec.c __J:\\Vb60\\Line21\\Parity.c __J:\\Vb6
0\\Line21\\stable.c __J:\\Vb60\\Line21\\funct.c __J:\\Vb60\\Line21\\L21Dec.def __J:\\Vb60\\Line21\\
XDSROM.c __J:\\Vb60\\Line21\\XDSMessages.c __LINE21 - WIN32 RELEASE __j/nologo
/MT /W3 /GX /O2 /D "WIN32" /D "NDEBUG" /D "_WINDOWS" /Fp"Release/Line21.pch"
/YX /Fo"Release/" /c __/nologo /D "NDEBUG" /win32 __/l 0x409 /d "NDEBUG" __/nologo
35 /o"Release/Line21.bsc" __ÿ0_kernel32.lib user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib uuid.lib odbccp32.lib /nologo
/subsystem:windows /dll /incremental:no /pdb:"Release/Line21.pdb" /machine:I386
/def:".\\L21Dec.def" /out:"Release/Line21.dll" /iE& Ççst¥m;<=>?@ABC
```

File: Line21.ncb

Microsoft C/C++ program database 2.00

[illegible]

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10

File: Line21Def.bas

```
Attribute VB_Name = "Line21Def"
5 Public Const APPNAME As String = "Line21Watch"
  Public Const SETTING As String = "Settings"
  Public Const TCOMF As String = "COMF"
  Public Const IP As String = "IP"
  Public Const PORT As String = "Port"
10 Option Explicit

  Declare Function Line21Decode Lib "Line21.dll" _
    (ByVal field As Long, ByVal ch As Byte, ByVal mes As String) _
15   As Long

  Declare Function ShiftRight Lib "Line21.dll" _
    (ByVal Val As Long, ByVal Shift As Long) As Long

20  Declare Function ShiftLeft Lib "Line21.dll" _
    (ByVal Val As Long, ByVal Shift As Long) As Long
```

File: Line21Watch.vbp

Type=Exe

```
5 Reference=*\G{00020430-0000-0000-C000-
000000000046}#2.0#0#C:\WINDOWS\SYSTEM\StdOle2.tlb#OLE Automation
Object={648A5603-2C6E-101B-82B6-000000000014}#1.1#0; MSCOMM32.OCX
Object={248DD890-BB45-11CF-9ABC-0080C7E7B78D}#1.0#0; MSWINSCK.OCX
Form=FrmLine21Watch.frm
10 Module=Line21Def; Line21Def.bas
Startup="FrmLine21Watch"
HelpFile=""
Command32=""
Name="Line21 Watch"
15 HelpContextID="0"
CompatibleMode="0"
MajorVer=1
MinorVer=0
RevisionVer=0
20 AutoIncrementVer=0
ServerSupportFiles=0
VersionCompanyName="norpak"
CompilationType=0
OptimizationType=0
25 FavorPentiumPro(tm)=0
CodeViewDebugInfo=0
NoAliasing=0
BoundsCheck=0
OverflowCheck=0
30 FIPointCheck=0
FDIVCheck=0
UnroundedFP=0
StartMode=0
Unattended=0
35 Retained=0
ThreadPerObject=0
MaxNumberOfThreads=1
```

File: Line21Watch.vbw

FrmLine21Watch = 115, 120, 649, 565, C, 46, 48, 580, 493, C

5 Line21Def = 69, 72, 603, 517, C

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File: Parity.c

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```
unsigned char parity[256] = {
10  0x80, 0x01, 0x02, 0x83, 0x04, 0x85, 0x86, 0x07,
    0x08, 0x89, 0x8a, 0x0b, 0x8c, 0x0d, 0x0e, 0x8f,
    0x10, 0x91, 0x92, 0x13, 0x94, 0x15, 0x16, 0x97,
    0x98, 0x19, 0x1a, 0x9b, 0x1c, 0x9d, 0x9e, 0x1f,
    0x20, 0xa1, 0xa2, 0x23, 0xa4, 0x25, 0x26, 0xa7,
15  0xa8, 0x29, 0x2a, 0xab, 0x2c, 0xad, 0xae, 0x2f,
    0xb0, 0x31, 0x32, 0xb3, 0x34, 0xb5, 0xb6, 0x37,
    0x38, 0xb9, 0xba, 0xb3, 0xbc, 0x3d, 0x3e, 0xbf,
    0x40, 0xc1, 0xc2, 0x43, 0xc4, 0x45, 0x46, 0xc7,
    0xc8, 0x49, 0x4a, 0xcb, 0x4c, 0xcd, 0xce, 0x4f,
20  0xd0, 0x51, 0x52, 0xd3, 0x54, 0xd5, 0xd6, 0x57,
    0x58, 0xd9, 0xda, 0x5b, 0xdc, 0x5d, 0x5e, 0xdf,
    0xe0, 0x61, 0x62, 0xe3, 0x64, 0xe5, 0xe6, 0x67,
    0x68, 0xe9, 0xea, 0x6b, 0xec, 0x6d, 0x6e, 0xef,
    0x70, 0xf1, 0xf2, 0x73, 0xf4, 0x75, 0x76, 0xf7,
25  0xf8, 0x79, 0x7a, 0xfb, 0x7c, 0xfd, 0xfe, 0x7f,
    0x80, 0x01, 0x02, 0x83, 0x04, 0x85, 0x86, 0x07,
    0x08, 0x89, 0x8a, 0x0b, 0x8c, 0x0d, 0x0e, 0x8f,
    0x10, 0x91, 0x92, 0x13, 0x94, 0x15, 0x16, 0x97,
    0x98, 0x19, 0x1a, 0x9b, 0x1c, 0x9d, 0x9e, 0x1f,
30  0x20, 0xa1, 0xa2, 0x23, 0xa4, 0x25, 0x26, 0xa7,
    0xa8, 0x29, 0x2a, 0xab, 0x2c, 0xad, 0xae, 0x2f,
    0xb0, 0x31, 0x32, 0xb3, 0x34, 0xb5, 0xb6, 0x37,
    0x38, 0xb9, 0xba, 0xb3, 0xbc, 0x3d, 0x3e, 0xbf,
    0x40, 0xc1, 0xc2, 0x43, 0xc4, 0x45, 0x46, 0xc7,
35  0xc8, 0x49, 0x4a, 0xcb, 0x4c, 0xcd, 0xce, 0x4f,
    0xd0, 0x51, 0x52, 0xd3, 0x54, 0xd5, 0xd6, 0x57,
    0x58, 0xd9, 0xda, 0x5b, 0xdc, 0x5d, 0x5e, 0xdf,
    0xe0, 0x61, 0x62, 0xe3, 0x64, 0xe5, 0xe6, 0x67,
    0x68, 0xe9, 0xea, 0x6b, 0xec, 0x6d, 0x6e, 0xef,
40  0x70, 0xf1, 0xf2, 0x73, 0xf4, 0x75, 0x76, 0xf7,
    0xf8, 0x79, 0x7a, 0xfb, 0x7c, 0xfd, 0xfe, 0x7f};
```

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File: Smachine.h

```
#define WINKCLASS 0x42
5  #define WINKSUMSTART WINKCLASS + 0x0D
   #define XDSEND 0x0F

   #define OVERWRITE " Error: Overwrite"
   #define CONTNOSTART " Error: Continue with no Start"
10  #define TOOLONG " Error: too many bytes"
   #define BADCHECKSUM " Error: bad check sum"
   #define TOOSHORT " Error: too few bytes"

   #define XDSSTART "XDS "
15  #define C1START "C1 "
   #define C2START "C2 "
   #define T1START "T1 "
   #define T2START "T2 "
   #define C3START "C3 "
20  #define C4START "C4 "
   #define T3START "T3 "
   #define T4START "T4 "
   #define ONESP " "
   #define TWOSP " "
25  #define SEVENSP " "
   #define MPAA " MPAA - "
   #define TVPG " TVPG - "
   #define OTHER " OTHER - non-USA"
   #define TVPG_FV ",FV"
30  #define TVPG_V ",V"
   #define TVPG_S ",S"
   #define TVPG_L ",L"
   #define TVPG_D ",D"

35  #define TRUE 1
   #define FALSE 0

   #define C1 0
   #define C2 1
40  #define CAP 0
   #define TXT 1
   #define FIELD1 1
   #define FIELD2 2
   #define POPUP 0
45  #define PAINTON 1
   #define ROLLUP2 2
```

```
#define ROLLUP3 3
#define ROLLUP4 4
#define T1 1
#define T2 2
5

typedef int (__cdecl *FPTR)(), *SPTR;

typedef union sval{
10   FPTR fptr;
   SPTR dptr;
   }SVAL;

#define CLASSMAX 7
15 #define RECORDMAX 128
#define MESLEN 6

#define XDSSWink 0
#define XDSCVChip 1
20 #define XDSCMax 2

struct XDSCState {
   BOOL Open;
   int Length;
25   char Data[33];
   int CheckSum;
   };

struct cState {
30   int CurrentCtrl[2];           // Save control character which starts pair
   int Channel[2];               // Channel 1 or 2 (control high or low)
   int Mode[2];                  // Mode captioning or text
   char Text[2][2][2][256];      // The saved text
   int TextLength[2][2][2];       // The length of the saved text
35   int Type[2][2];              // The type of caption
   int XDSCClass;                // The current XDSC class
   int XDSCRecord;               // The current XDSC record
   struct XDSCState XDSC[CLASSMAX][RECORDMAX]; // stored data for current XDSC state
   SVAL *NextState[2];           // pointer to the next state
40   };

#define STATE(x) SVAL x##[] = {
#define TEST(x) &##x##,
#define NEXT(x) NULL, ##x##,
45 #define DEFAULT &DefaultTest,
#define DNEXT(x) NULL, ##x##};
```

File: stable.c

```
#include <windows.h>
5  #include <stdio.h>
    #include "sMachine.h"
    #include "L21Dec.h"

    extern SVAL DataState[];
10  extern SVAL ControlState[];
    extern SVAL XDSSstartState[];
    extern SVAL XDSContState[];
    extern SVAL XDSDataState[];
    extern SVAL XDSEndState[];
15  extern SVAL URLDataState[];

    #pragma warning(disable : 4047)
    /*
    *   State Tables
20  *
    *   This is what drives the state machine. Each state has one or more possible
    *   sub-state changes. Each of these is made up of a test followed by a list
    *   of functions to execute if the test passes and a new state to go to. The
    *   state machine tries each test in order. The first test that passes has its
25  *   functions executed and the state changed to its next state. The state
    *   machine then exits without trying any more states. The last test on the list
    *   for a state must be the default test which always returns true.
    */

30  // State DataState
    // This state is to go when we have text data
    //

    STATE(DataState)
35  TEST(NullTest) NEXT(DataState)
    TEST(F1XDSTest) NEXT(DataState)
    TEST(XDSSstartTest) &XDSSBegin, NEXT(XDSSstartState)
    TEST(XDSContTest) &XDSContBegin, NEXT(XDSContState)
    TEST(XDSEndTest) NEXT(XDSEndState)
40  TEST(ControlTest) &ControlSave, NEXT(ControlState)
    DEFAULT &DataSave, DNEXT(DataState)

    // State ControlState
    // In this state we have received a control character and the next
45  // character will decide what action we should take. Warning the control
    // pair may be repeated but in this case we do not care. Normally you
```

```
// require extra states to filter out repeats.

STATE(ControlState)
  TEST(NullTest) NEXT(ControlState)
5  TEST(FIXDSTest) NEXT(DataState)
  TEST(XDSSStartTest) &XDSBegin, NEXT(XDSSStartState)
  TEST(XDSContTest) &XDSBegin, NEXT(XDSContState)
  TEST(XDSEndTest) NEXT(XDSEndState)
  TEST(ControlTest) &ControlSave, NEXT(ControlState)
10  TEST(PopOnTest) &PopOnDecode, NEXT(DataState)
  TEST(RollUpTest) &RollUpDecode, NEXT(DataState)
  TEST(PaintOnTest) &PaintOnDecode, NEXT(DataState)
  TEST(URLTest) &URLDecode, NEXT(URLDataState)
  TEST(TextModeTest) &TextDecode, NEXT(DataState)
15  TEST(EndOfCaptionTest) &PopOnDecode, NEXT(DataState)
  TEST(PACTest) &DumpText, NEXT(DataState)
  TEST(CRTest) &ChannelChange, &DumpText, NEXT(DataState)
  TEST(CtrlChangeTest) &ChannelChange, NEXT(DataState)
  DEFAULT DNEXT(DataState)
20
  // State XDSSStartState
  // In this case we have received a an XDS Undefined Start character (0D)
  // The next character determines which class function to execute.

25  STATE(XDSSStartState)
    TEST(NullTest) NEXT(XDSSStartState)
    DEFAULT &XDSSStart, DNEXT(XDSDDataState)

  // State XDSContState
30  // In this case we have received a an XDS Undefined Continue character (0E)
  // The next character determines which class function to execute.

  STATE(XDSContState)
    TEST(NullTest) NEXT(XDSContState)
35  DEFAULT &XDSCont, DNEXT(XDSDDataState)

  // State XDSDDataState
  // In this state we have received the first character of
  // the XDS stream. Want to stay in this state until
40  // we have receive the full XDS Message.

  STATE(XDSDDataState)
    TEST(XDSEndTest) NEXT(XDSEndState)
    TEST(XDSSStartTest) &XDSBegin, NEXT(XDSSStartState)
45  TEST(XDSContTest) &XDSBegin, NEXT(XDSContState)
    TEST(ControlTest) &ControlSave, NEXT(ControlState)
```

```

// State XDSEndState
// We have received the XDS end command (0f) we need to fetch the
5 // checksum and then we are done and have recieved the full message.

STATE(XDSEndState)
    DEFAULT &XDSEnd, DNEXT(DataState)

10 // State URLDataState
// This state is to go when we have T2 (URL) data
//

STATE(URLDataState)
15 TEST(NullTest) NEXT(URLDataState)
    TEST(FIXDSTest) NEXT(URLDataState)
    TEST(XDSSStartTest) &XDSEnd, NEXT(XDSSStartState)
    TEST(XDSContTest) &XDSEnd, NEXT(XDSContState)
    TEST(XDSEndTest) NEXT(XDSEndState)
20 TEST(ControlTest) &ControlSave, NEXT(ControlState)
    TEST(URLEndTest) &DataSave, &DumpText, NEXT(URLDataState)
    DEFAULT &DataSave, DNEXT(URLDataState)

```

File: Tests.c

```
5  #include <windows.h>
   #include <stdio.h>
   #include "sMachine.h"
   #include "L21Dec.h"

10 int DefaultTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
   {
       return(TRUE);
   }

15 int NullTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
   {
       if(ch == 0x00)
           return(TRUE);
       else
20     return(FALSE);
   }

   int F1XDSTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
   {
25     if((ch < 0x10) && (field == FIELD1))
           return(TRUE);
       else
           return(FALSE);
   }

30 int XDSTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
   {
       if((ch > 0) && (ch < 0x0f) && ((ch & 1) == 1))
           return(TRUE);
35     else
           return(FALSE);
   }

   int XDSTestCont(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
40     {
       if((ch > 0) && (ch < 0x0f) && ((ch & 1) == 0))
           return(TRUE);
       else
           return(FALSE);
45     }
```

```
int XDSEndTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    if(ch == 0x0f)
        return(TRUE);
5    else
        return(FALSE);
}

10 int ControlTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    if((ch > 0x0f) && (ch < 0x20))
        return(TRUE);
    else
15    return(FALSE);
}

int TextModeTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
20    int c;

    c = cStatePtr->CurrentCtrl[field - 1];
    if((c == 0x14) || (c == 0x15) || (c == 0x1c) || (c == 0x1d))
    {
25        if((ch == 0x2a) || (ch == 0x2b))
            return(TRUE);
        }
    return(FALSE);
}

30 int RollUpTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int c;

35    c = cStatePtr->CurrentCtrl[field - 1];
    if((c == 0x14) || (c == 0x15) || (c == 0x1c) || (c == 0x1d))
    {
        if((ch > 0x24) && (ch < 0x28))
            return(TRUE);
40    }
    return(FALSE);
}

45 int PaintOnTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int c;
```



```
c = cStatePtr->CurrentCtrl[field - 1];
if((c == 0x14) || (c == 0x15) || (c == 0x1c) || (c == 0x1d))
{
5   if(ch == 0x29)
      return(TRUE);
}
return(FALSE);
}

10 int PopOnTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int c;

15   c = cStatePtr->CurrentCtrl[field - 1];
    if((c == 0x14) || (c == 0x15) || (c == 0x1c) || (c == 0x1d))
    {
        if(ch == 0x20)
            return(TRUE);
20     }
    return(FALSE);
}

int EndOfCaptionTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
25 {
    int c;

    c = cStatePtr->CurrentCtrl[field - 1];
    if((c == 0x14) || (c == 0x15) || (c == 0x1c) || (c == 0x1d))
30     {
        if(ch == 0x2f)
            return(TRUE);
        }
    return(FALSE);
35 }

int PACTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)
{
    int c;

40   c = cStatePtr->CurrentCtrl[field - 1];
    if((c > 0xf) && (c < 0x20))
    {
        if(ch > 0x3f)
45     return(TRUE);
    }
}
```

```
    return(FALSE);  
}
```

```
5  int CtrlChangeTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)  
    {  
        int f, c, ctrl;  
  
        f = field - 1;  
        c = cStatePtr->Channel[f];  
10  ctrl = cStatePtr->CurrentCtrl[f];  
        if(((ch > 0x1f) && (ch < 0x40)) && (((ctrl < 0x18) && (c != C1)) || ((ctrl > 0x17) && (c !=  
C2))))  
            return(TRUE);  
        else  
15  return(FALSE);  
    }
```

```
int CRTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)  
20 {  
    int c;  
  
    c = cStatePtr->CurrentCtrl[field - 1];  
    if((c == 0x14) || (c == 0x15) || (c == 0x1c) || (c == 0x1d))  
    {  
25  if(ch == 0x2d)  
            return(TRUE);  
    }  
    return(FALSE);  
}
```

```
30 int URLTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)  
    {  
        int c;  
  
35  c = cStatePtr->CurrentCtrl[field - 1];  
        if((field == FIELD1) && (c == 0x1c))  
        {  
            if((ch == 0x2a) || (ch == 0x2b))  
                return(TRUE);  
40  }  
        return(FALSE);  
    }
```

```
45 int URLEndTest(long field, unsigned char ch, char mes[], struct cState *cStatePtr)  
    {  
        int f, l;
```

```
char *t;

f = field - 1;
l = cStatePtr->TextLength[f][C2][TXT];
5  t = cStatePtr->Text[f][C2][TXT];
    if(l > 5)
        if((ch == ']') && (t[l-5] == '['))
            {
                if(((t[l-4] >= '0') && (t[l-4] <= '9')) || ((t[l-4] >= 'A') && (t[l-4] <= 'F')) || ((t[l-4] >= 'a')
10  && (t[l-4] <= 'f'))
                    if(((t[l-3] >= '0') && (t[l-3] <= '9')) || ((t[l-3] >= 'A') && (t[l-3] <= 'F')) || ((t[l-3] >= 'a')
&& (t[l-3] <= 'f'))
                        if(((t[l-2] >= '0') && (t[l-2] <= '9')) || ((t[l-2] >= 'A') && (t[l-2] <= 'F')) || ((t[l-2] >= 'a')
&& (t[l-2] <= 'f'))
15  if(((t[l-1] >= '0') && (t[l-1] <= '9')) || ((t[l-1] >= 'A') && (t[l-1] <= 'F')) || ((t[l-1] >=
'a') && (t[l-1] <= 'f'))
                            return(TRUE);
                        }
                    return(FALSE);
20  }
```

File: XDSMessages.c

```
#include <windows.h>
#include <stdio.h>
5  #include <string.h>
    #include "L21Dec.h"
    #include "sMachine.h"

extern char XDSMes[CLASSMAX][RECORDMAX][MESLEN];
10 extern char *mpaaRatings[];
    extern char *tvpgratings[];
    extern char flagmask[];
    extern char *types[];

15 void Def(char mes[], struct cState *cStatePtr)
    {
        strcpy(mes,XDSSTART);
        strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
        strcat(mes,TWOSP);
20  cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Data[cStatePtr-
    >XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length] = 0;
        strcat(mes, cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Data);
    }

25 void Vcp(char mes[], struct cState *cStatePtr)
    {
        char b1, b2, type;
        char flags;

30  strcpy(mes,XDSSTART);
        strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
        b1 = cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Data[0];
        b2 = cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Data[1];
        type = ((b1 >> 3) & 3);
35  if((type == 0) || (type == 2)) //MPAA
        {
            strcat(mes, MPAA);
            strcat(mes, mpaaRatings[b1 & 7]);
        }
40  else if(type == 1) // TVPG
        {
            strcat(mes, TVPG);
            strcat(mes, tvpgRatings[b2 & 7]);
            flags = (b1 >> 5) & 1;
45  flags = flags | ((b2 & 0x38) >> 2);
            flags = flags | ((b2 & 0x20) >> 1);
```

```

    flags = flags & flagmask[b2 & 7];
    if(flags & 0x10)
        strcat(mes,TVPG_FV);
    if(flags & 8)
5       strcat(mes,TVPG_V);
    if(flags & 4)
        strcat(mes,TVPG_S);
    if(flags & 2)
        strcat(mes,TVPG_L);
10     if(flags & 1)
        strcat(mes,TVPG_D);
    }
    else // Other
    {
15     strcat(mes, OTHER);
    }
}

void Typ(char mes[], struct cState *cStatePtr)
20 {
    int i;

    strcpy(mes,XDSSTART);
    strcat(mes,XDSMes[cStatePtr->XDSClass][cStatePtr->XDSRecord]);
25     strcat(mes,TWOSP);
    for(i = 0;i < cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Length;i++)
    {
        strcat(mes, types[cStatePtr->XDS[cStatePtr->XDSClass][cStatePtr->XDSRecord].Data[i]
- 0x20]);
30     strcat(mes, ONESP);
    }
}
```

File: XDSROM.c

```
#include <windows.h>
5  #include "L21Dec.h"
    #include "sMachine.h"

    char MaxLength[CLASSMAX][RECORDMAX] = {
10      { 0, 4, 6, 32, 32, 2, 2, 8, 32, 4, 32, 32, 32, 32, 32, // Current Class
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
15      32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32},
        { 0, 4, 6, 32, 32, 2, 2, 8, 4, 32, 32, 32, 32, 32, 32, // Future Class
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
20      32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32},
25      { 0, 32, 6, 2, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, // Channel Class
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
30      32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32},
        { 0, 6, 6, 32, 2, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, // Miscellaneous
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
35      32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        2, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
40      32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32},
        { 0, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, // Public Service
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
45      32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
        32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
```

"L21Dec.h" 323456789

```
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32},
{32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, // Reserved
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
5 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
10 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32},
{32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, // Undefined Class
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
15 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32,
32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32}};

20 char MinLength[CLASSMAX][RECORDMAX] = {
    { 0, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Current Class
      0, 0, 0, 0, 0, 0, 0, 0, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
25 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
    { 0, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Future Class
      0, 0, 0, 0, 0, 0, 0, 0, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
35 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
    { 0, 2, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Channel Class
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
40 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
45 { 0, 6, 6, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Miscellaneous
      2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
```

```
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
5 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
{ 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Public Service
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
10 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
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2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
15 { 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Reserved
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
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2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
20 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
{ 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, // Undefined Class
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
25 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
30 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2},
};
```

```
char XDSMes[CLASSMAX][RECORDMAX][MESLEN] = {
{"Null ", "Start", "Durat", "Show ", "Type ", "VChip", "Audio", "Capti", // Current Class
"0108 ", "Aspec", "010A ", "010B ", "Comp1", "Comp2", "010E ", "010F ",
35 "Desc1", "Desc2", "Desc3", "Desc4", "Desc5", "Desc6", "Desc7", "Desc8",
"0118 ", "0119 ", "011A ", "011B ", "011C ", "011D ", "011E ", "011F ",
"0120 ", "0121 ", "0122 ", "0123 ", "0124 ", "0125 ", "0126 ", "0127 ",
"0128 ", "0129 ", "012A ", "012B ", "012C ", "012D ", "012E ", "012F ",
"0130 ", "0131 ", "0132 ", "0133 ", "0134 ", "0135 ", "0136 ", "0137 ",
40 "0138 ", "0139 ", "013A ", "013B ", "013C ", "013D ", "013E ", "013F ",
"0140 ", "0141 ", "0142 ", "0143 ", "0144 ", "0145 ", "0146 ", "0147 ",
"0148 ", "0149 ", "014A ", "014B ", "014C ", "014D ", "014E ", "014F ",
"0150 ", "0151 ", "0152 ", "0153 ", "0154 ", "0155 ", "0156 ", "0157 ",
"0158 ", "0159 ", "015A ", "015B ", "015C ", "015D ", "015E ", "015F ",
45 "0160 ", "0161 ", "0162 ", "0163 ", "0164 ", "0165 ", "0166 ", "0167 ",
"0168 ", "0169 ", "016A ", "016B ", "016C ", "016D ", "016E ", "016F ",
```



```

"0170 ","0171 ","0172 ","0173 ","0174 ","0175 ","0176 ","0177 ",
"0178 ","0179 ","017A ","017B ","017C ","017D ","017E ","017F "},
{"0300 ","0301 ","0302 ","0303 ","0304 ","0305 ","0306 ","0307 ", // Future Class
"0308 ","0309 ","030A ","030B ","030C ","030D ","030E ","030F ",
5  "0310 ","0311 ","0312 ","0313 ","0314 ","0315 ","0316 ","0317 ",
"0318 ","0319 ","031A ","031B ","031C ","031D ","031E ","031F ",
"0320 ","0321 ","0322 ","0323 ","0324 ","0325 ","0326 ","0327 ",
"0328 ","0329 ","032A ","032B ","032C ","032D ","032E ","032F ",
"0330 ","0331 ","0332 ","0333 ","0334 ","0335 ","0336 ","0337 ",
10  "0338 ","0339 ","033A ","033B ","033C ","033D ","033E ","033F ",
"0340 ","0341 ","0342 ","0343 ","0344 ","0345 ","0346 ","0347 ",
"0348 ","0349 ","034A ","034B ","034C ","034D ","034E ","034F ",
"0350 ","0351 ","0352 ","0353 ","0354 ","0355 ","0356 ","0357 ",
"0358 ","0359 ","035A ","035B ","035C ","035D ","035E ","035F ",
15  "0360 ","0361 ","0362 ","0363 ","0364 ","0365 ","0366 ","0367 ",
"0368 ","0369 ","036A ","036B ","036C ","036D ","036E ","036F ",
"0370 ","0371 ","0372 ","0373 ","0374 ","0375 ","0376 ","0377 ",
"0378 ","0379 ","037A ","037B ","037C ","037D ","037E ","037F "},
{"0500 ","Netwk","Affil","Delay","0504 ","0505 ","0506 ","0507 ", // Channel Class
20  "0508 ","0509 ","050A ","050B ","050C ","050D ","050E ","050F ",
"0510 ","0511 ","0512 ","0513 ","0514 ","0515 ","0516 ","0517 ",
"0518 ","0519 ","051A ","051B ","051C ","051D ","051E ","051F ",
"0520 ","0521 ","0522 ","0523 ","0524 ","0525 ","0526 ","0527 ",
"0528 ","0529 ","052A ","052B ","052C ","052D ","052E ","052F ",
25  "0530 ","0531 ","0532 ","0533 ","0534 ","0535 ","0536 ","0537 ",
"0538 ","0539 ","053A ","053B ","053C ","053D ","053E ","053F ",
"0540 ","0541 ","0542 ","0543 ","0544 ","0545 ","0546 ","0547 ",
"0548 ","0549 ","054A ","054B ","054C ","054D ","054E ","054F ",
"0550 ","0551 ","0552 ","0553 ","0554 ","0555 ","0556 ","0557 ",
30  "0558 ","0559 ","055A ","055B ","055C ","055D ","055E ","055F ",
"0560 ","0561 ","0562 ","0563 ","0564 ","0565 ","0566 ","0567 ",
"0568 ","0569 ","056A ","056B ","056C ","056D ","056E ","056F ",
"0570 ","0571 ","0572 ","0573 ","0574 ","0575 ","0576 ","0577 ",
"0578 ","0579 ","057A ","057B ","057C ","057D ","057E ","057F "},
35  {"0700 ","Time ","Impul","Suppl","Zone ","0705 ","0706 ","0707 ", // Miscellaneous
"0708 ","0709 ","070A ","070B ","070C ","070D ","070E ","070F ",
"0710 ","0711 ","0712 ","0713 ","0714 ","0715 ","0716 ","0717 ",
"0718 ","0719 ","071A ","071B ","071C ","071D ","071E ","071F ",
"0720 ","0721 ","0722 ","0723 ","0724 ","0725 ","0726 ","0727 ",
40  "0728 ","0729 ","072A ","072B ","072C ","072D ","072E ","072F ",
"0730 ","0731 ","0732 ","0733 ","0734 ","0735 ","0736 ","0737 ",
"0738 ","0739 ","073A ","073B ","073C ","073D ","073E ","073F ",
"OObNB","0741 ","0742 ","0743 ","0744 ","0745 ","0746 ","0747 ",
"0748 ","0749 ","074A ","074B ","074C ","074D ","074E ","074F ",
45  "0750 ","0751 ","0752 ","0753 ","0754 ","0755 ","0756 ","0757 ",
"0758 ","0759 ","075A ","075B ","075C ","075D ","075E ","075F ",

```

```
"0760 ","0761 ","0762 ","0763 ","0764 ","0765 ","0766 ","0767 ",
"0768 ","0769 ","076A ","076B ","076C ","076D ","076E ","076F ",
"0770 ","0771 ","0772 ","0773 ","0774 ","0775 ","0776 ","0777 ",
"0778 ","0779 ","077A ","077B ","077C ","077D ","077E ","077F "},
5 {"0900 ","0901 ","0902 ","0903 ","0904 ","0905 ","0906 ","0907 ", // Public Service
"0908 ","0909 ","090A ","090B ","090C ","090D ","090E ","090F ",
"0910 ","0911 ","0912 ","0913 ","0914 ","0915 ","0916 ","0917 ",
"0918 ","0919 ","091A ","091B ","091C ","091D ","091E ","091F ",
"0920 ","0921 ","0922 ","0923 ","0924 ","0925 ","0926 ","0927 ",
10 "0928 ","0929 ","092A ","092B ","092C ","092D ","092E ","092F ",
"0930 ","0931 ","0932 ","0933 ","0934 ","0935 ","0936 ","0937 ",
"0938 ","0939 ","093A ","093B ","093C ","093D ","093E ","093F ",
"0940 ","0941 ","0942 ","0943 ","0944 ","0945 ","0946 ","0947 ",
"0948 ","0949 ","094A ","094B ","094C ","094D ","094E ","094F ",
15 "0950 ","0951 ","0952 ","0953 ","0954 ","0955 ","0956 ","0957 ",
"0958 ","0959 ","095A ","095B ","095C ","095D ","095E ","095F ",
"0960 ","0961 ","0962 ","0963 ","0964 ","0965 ","0966 ","0967 ",
"0968 ","0969 ","096A ","096B ","096C ","096D ","096E ","096F ",
"0970 ","0971 ","0972 ","0973 ","0974 ","0975 ","0976 ","0977 ",
20 "0978 ","0979 ","097A ","097B ","097C ","097D ","097E ","097F "},
{"0B00 ","WSCod","WSMes","0B03 ","0B04 ","0B05 ","0B06 ","0B07 ", // Reserved
Class
"0B08 ","0B09 ","0B0A ","0B0B ","0B0C ","0B0D ","0B0E ","0B0F ",
"0B10 ","0B11 ","0B12 ","0B13 ","0B14 ","0B15 ","0B16 ","0B17 ",
25 "0B18 ","0B19 ","0B1A ","0B1B ","0B1C ","0B1D ","0B1E ","0B1F ",
"0B20 ","0B21 ","0B22 ","0B23 ","0B24 ","0B25 ","0B26 ","0B27 ",
"0B28 ","0B29 ","0B2A ","0B2B ","0B2C ","0B2D ","0B2E ","0B2F ",
"0B30 ","0B31 ","0B32 ","0B33 ","0B34 ","0B35 ","0B36 ","0B37 ",
"0B38 ","0B39 ","0B3A ","0B3B ","0B3C ","0B3D ","0B3E ","0B3F ",
30 "0B40 ","0B41 ","0B42 ","0B43 ","0B44 ","0B45 ","0B46 ","0B47 ",
"0B48 ","0B49 ","0B4A ","0B4B ","0B4C ","0B4D ","0B4E ","0B4F ",
"0B50 ","0B51 ","0B52 ","0B53 ","0B54 ","0B55 ","0B56 ","0B57 ",
"0B58 ","0B59 ","0B5A ","0B5B ","0B5C ","0B5D ","0B5E ","0B5F ",
"0B60 ","0B61 ","0B62 ","0B63 ","0B64 ","0B65 ","0B66 ","0B67 ",
35 "0B68 ","0B69 ","0B6A ","0B6B ","0B6C ","0B6D ","0B6E ","0B6F ",
"0B70 ","0B71 ","0B72 ","0B73 ","0B74 ","0B75 ","0B76 ","0B77 ",
"0B78 ","0B79 ","0B7A ","0B7B ","0B7C ","0B7D ","0B7E ","0B7F "},
{"0D00 ","0D01 ","0D02 ","0D03 ","0D04 ","0D05 ","0D06 ","0D07 ", // Undefined Class
"0D08 ","0D09 ","0D0A ","0D0B ","0D0C ","0D0D ","0D0E ","0D0F ",
40 "0D10 ","0D11 ","0D12 ","0D13 ","0D14 ","0D15 ","0D16 ","0D17 ",
"0D18 ","0D19 ","0D1A ","0D1B ","0D1C ","0D1D ","0D1E ","0D1F ",
"0D20 ","0D21 ","0D22 ","0D23 ","0D24 ","0D25 ","0D26 ","0D27 ",
"0D28 ","0D29 ","0D2A ","0D2B ","0D2C ","0D2D ","0D2E ","0D2F ",
"0D30 ","0D31 ","0D32 ","0D33 ","0D34 ","0D35 ","0D36 ","0D37 ",
45 "0D38 ","0D39 ","0D3A ","0D3B ","0D3C ","0D3D ","0D3E ","0D3F ",
"0D40 ","0D41 ","0D42 ","0D43 ","0D44 ","0D45 ","0D46 ","0D47 ",
```



```
{Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, // Public
Service
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
5 Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def},
10 {Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, //
Reserved
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
15 Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def},
{Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, //
20 Undefined Class
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
25 Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def,
Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def, Def};

char *mpaaRatings[] = {"N/A", "G", "PG", "PG-13", "R", "NC-17", "X", "Not Rated"};
30 char *tvpgRatings[] = {"None", "TV-Y", "TV-Y7 ", "TV-G", "TV-PG ", "TV-14 ", "TV-MA
", "None"};
char flagmask[] = { 0, 0, 0x10, 0, 0xf, 0xf, 0xe, 0};

char *types[] = {
35 "Education", "Entertainment", "Movie", "News", "Religious", "Sports", "OTHER",
"Action",
"Advertisement", "Animated", "Anthology", "Automobile", "Awards", "Baseball",
"Basketball", "Bulletin",
"Business", "Classical", "College", "Combat", "Comedy", "Commentary", "Concert",
40 "Consumer",
"Contemporary", "Crime", "Dance", "Documentary", "Drama", "Elementary", "Erotica",
"Exercise",
"Fantasy", "Farm", "Fashion", "Fiction", "Food", "Football", "Foreign", "Fund Raiser",
"Game/Quiz", "Garden", "Golf", "Government", "Health", "High School", "History",
45 "Hobby",
```



ExtractDB

File: hexdec.pl

```
5  #!/usr/bin/perl

    ## hex dec display

    $a=chr(32);
10  print ">". $a. "<". "\n";

    $a=hex(32);
    print ">". $a. "<". "\n";

15  $a=hex(20);

    print "\n";
    #print pack"h2", "32";
20  $a = sprintf "%lx", (32);

    print $a;
```

File: stamp2db.pl

```
5  #!/usr/bin/perl

# this program access mysql DB and reads off all
#or as much data as you want,
#it then generates a web page to view it in raw form.

10 use DBI;

my($dbh, $sth);

15 $dbh = DBI->connect( 'DBI:mysql:caption:localhost:3306', 'root', '' ) || warn "connecting:
$DBI::errstr\n";

$sth = $dbh->prepare("select * from raw order by recordnum");
20 $sth->execute();

# get all from DB

25 while(@row = $sth->fetchrow()) {
#   print @row[2]."\n";
$tim=@row[1];
$_=@row[2];
$I1=0;$I2=0;
30 if(/^(\d)\s(\d+)\s$/) {$fnum=$1; $I1=$2;}
elseif(/^(\d)\s(\d+)\s(\d+)\s$/) {$fnum=$1; $I1=$2; $I2=$3; }
#else {print "OPPS".@row[2]."\n";}
else {}

35 if( ($I1 == 20 || $I1 == 28) && $I2 == 44 ) {}

else
{
40   if(1 == ($fnum+0)) {
#print $tim;
if ($I1 >= 0x20 && $I1 < 0x7f) {$out.=chr($I1);}
elseif($I1 != 0) {$a = sprintf "%lx", $I1+0;
45   $out.="[".$a."];"}
if ($I2 >= 0x20 && $I2 < 0x7f) { $out.=chr($I2);}
```

```
        elsif($12 != 0) { $a = sprintf "%lx", $12+0;
        $out.="[".$12.>";}
        #print "\n";
    }
5    } # end while

    if(2 == ($fnum+0)) {
10    if ($11 >= 0x20 && $11 < 0x7f) {$out2.=chr($11);}
        elsif($11 != 0) {$out2.="[".$11.>";}
        if ($12 >= 0x20 && $12 < 0x7f) {$out2.=chr($12);}
        elsif($12 != 0) {$out2.="[".$12.>";}
    }
15

    }

20    # write out web page with data

    open(FILE,"> /usr/www/names/docs/caption_new.html");
    print FILE "<HTML>Strings or repetitive [20], or [28], are not shown<br><br><font
25    color=blue>Field 1</font><br><br>\n";
    $_=$out;

    # do necessary substitution to flag URL
30    s/(<[^<>]*)/>^[$1]/g;

    s/^[20\]\^x04/g;
    s/([28\]*)^(\^x04*)(x04)/<font color=red\>$1$2$3</font>/g;
    s/^x04/^[20\]/g;
35    $out=$_;

    print FILE $out;

    print FILE "<br><br><font color=blue>Field 2</font><br><br>\n";
40    print FILE $out2;

    close(FILE);
```



## File: funct.obj

```

5 L_ylTM9D_,directve(D_
   _text_l_P'.debug$F_%_TM_H_B.text;f_b_P'.data__ @_0À.data__
      @_0À.debug$F_ / H_B.text;9t
   _P'.data!œ
   @_0À.debug$F_½
10 Í
   _H_B.text,×
   Y_P'.debug$F_c_s_H_B.textQ}_Î
   _P'.data_d@_0À.data_|@_0À.data*_@_0À.debug$F_-½_H_B.text_C_
   _P'.debug$F_B_i_H_B.textEù_P'.debug$F>_N_H_B.textlX_
15 P'.debug$F_i±_H_B.textl»_P'.debug$F'_7_H_B.textCA_
   _P'.debug$F_,,_H_B.textlž_P'.debug$F_c÷_H_B.text2_
   _P'.debug$F_3_C_H_B.text_M_P'.debug$F_]m_H_B.text7w_
   _P'.debug$F_®¾_H_B.textB_E_
   _P'.data_u@_0À.data_y@_0À.data__@_0À.data_
20 @_0À.data__@_0À.data__@_0À.data__@_0À.data_
   @_0À.data_%@_0À.debug$F_*:_H_B-defaultlib:LIBCMT-defaultlib:OLDNAMES
   3À<L$ŠD$HTM+ÃÁø%□H_,_Ã_<T$fi_SVW3ŮŠ$U<,H_%ōšL_Áà_ÃÁà_□@f
   ¼_P____~¡$<
   ,%MŠ@^E<,_H_Áà_,L_□@+À□<M'ÿÿÿÿò®÷Ñ+ù%L$_<÷¹ÿÿÿÿý+Àð®O<L$_Áé_ó¥<
25 L$_fá_ó¤¿¹ÿÿÿÿ+Àð®÷Ñ+ù%L$_<÷¹ÿÿÿÿý+Àð®O<L$_Áé_ó¥<L$_fá_ó¤<,_H_Áà_,L_Áà_
   □@Ç,,_P_<,_H_Áà_,L_Áà_□@Ç,,_T_<SH_□_KÁá_@_ŠL_]Áá_^□_I%,.,_|_|_[fÄ_Ã<
   _A_e_TM_Error: OverwriteXDS
   ;_____<T$fi_SVW3ŮŠ$U<,H_%ōšL_Áà_ÃÁà_□@f¼_P____.ø¡$<
   ,%MŠ@^E<,_H_Áà_,L_□@+À□<M'ÿÿÿÿò®÷Ñ+ù%L$_<÷¹ÿÿÿÿý+Àð®O<L$_Áé_ó¥<
30 L$_fá_ó¤¿¹ÿÿÿÿ+Àð®÷Ñ+ù%L$_<÷¹ÿÿÿÿý+Àð®O<L$_Áé_ó¥<L$_fá_ó¤<,_H_Áà_,L_Áà_
   □@Ç,,_P_<,_H_Áà_,L_Áà_□@Ç,,_T_<SH_□_KÁá_@_ŠL_Áá_□_I%,.,_|_|_|^[fÄ_Ã<
   _A_e_TM_Error: Continue with no
   Start;_____<T$SVW<,_H_3ŮÁà_ŠL$_,_L_ŠŮÁà_□4@_œ_|²H_Áæ_²L_<ÆÁà_¾¶□
   <@<,,_T_;&~_Á^CE8X<,_H_Áà_^,_L_]Áà_□@_,_ÿ,,_T_ÂB!_,___
35 <L$_SVW<□H_Áà_□L_Áà_□_@Ç,,
   P_<±H_Áæ_±L_<ÆÁà_□_@_¾†□<
   <"
   T_;Â_Z"<T$_i¾%_Š^_Z_<□H_Áà_□L_□@+À□<M'ÿÿÿÿò®÷Ñ+ù.U<÷¹ÿÿÿÿú+Àð®O<
   ÊÁé_ó¥<Êfá_ó¤¿¹ÿÿÿÿ+Àð®÷Ñ+ù.U<÷¹ÿÿÿÿú+Àð®O<ÊÁé_ó¥<Êfá_ó¤_,_^[Á_¾†;Â_□"(
40 T$_<5,%2Š@_B_<□H_Áà_□L_□@+À□<M'ÿÿÿÿò®÷Ñ+ù.U<÷¹ÿÿÿÿú+Àð®O<ÊÁé_ó¥<
   Êfá_ó¤¿¹ÿÿÿÿ+Àð®÷Ñ+ù.U<÷¹ÿÿÿÿú+Àð®O<ÊÁé_ó¥<Êfá_ó¤_,_^[Á3ÅSD$_†|fÄ_
   ,,,"T$_<5,%2Š@_B_<□H_Áà_□L_□@+À□<M'ÿÿÿÿò®÷Ñ+ù.U<÷¹ÿÿÿÿú+Àð®O<ÊÁé_
   ó¥<Êfá_ó¤¿¹ÿÿÿÿ+Àð®÷Ñ+ù.U<÷¹ÿÿÿÿú+Àð®O<ÊÁé_ó¥<Êfá_ó¤_,_^[Á<T$_QRÿ_µfÄ_,
   _^[AA1\_a_,,²/i!_ÿ_'_U_,^_Ò_)A_0_Error: bad check sum
45 Error: too many bytes Error: too few
   bytesQ_&3Ô<D$ŠT$_<L$_%T□ü_,_Ã_6<L$_SVI<t$_□M_TŽ_□Ž_Ò_P_□E-

```

5 <=ÿ} Áâ Š\$ \_Ö\ \_ÿ \_ ^[ÃE \_; <T\$ <L\$ \_□D'üÇ@\_f8 \_} Ç@\_Ç,,Ñ8 \_ ÄÇ@\_Ç  
,,Ñ< \_ ÄI @\_ <L\$ VWI<t\$ \_¿ \_ ŽÇ@\_f8 \_| \_¿ \_ŠT\$ %x\_ €ú%u \_□\_ OÇ,,†8 \_ €ú&u \_□\_ OÇ,,  
†8 \_ €ú'u \_□\_ OÇ,,†8 \_ \_ ^ÄI \_ E <T\$ VJ<L\$ 3Ä□4'‰D' \_f> \_} %F \_ Ç,,Ñ8 \_ ^Ä \_‰F  
\_ ^‰,,Ñ< \_ ÄÇ \_ J <T\$ <D\$ \_□L□üÇA\_f9 \_} ÇA\_Ç,,Ð8 \_ ÄÇA\_Ç,,Ð< \_ ÄI O\_ <L\$  
<D\$ \_□D'üÇ@\_f8 \_}  
Ç@\_ ÄÇ@\_ Ä2\_T\_ <L\$ \_‰A\_‰A\_ Ä\_Y\_ <L\$ ŠD\$ \_I< r\$<?w <D\$ \_□\_ ^f8 \_}  
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ö \_...°...ÿuV<T\$ <  
¾‰  
10 ŠN\_ J\_ 'ÿÿÿÿ<,,f8\_ <...+Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ éA\_ <T\$  
<5‰2ŠI\_ J\_ 'ÿÿÿÿ<,,f8\_ <...+Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ éë \_...ÿuL<  
T\$ \_¿\_‰\_ +ÄSI\_ J\_ 'ÿÿÿÿð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ é\_ <T\$ \_¿\_<  
\_‰  
'ÿÿÿÿŠ@\_ ^B\_ +Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ éN\_...ö \_...°...ÿuV<T\$  
15 <5‰2ŠI\_ J\_ 'ÿÿÿÿ<,,f8\_ <...+Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ éi<T\$  
<5‰2ŠI\_ J\_ 'ÿÿÿÿ<,,f8\_ <...+Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ é-  
...ÿuJ<T\$ \_¿\_<  
\_‰  
'ÿÿÿÿŠ@\_ ^B\_ +Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ ëH<T\$ \_¿\_<  
\_‰  
20 'ÿÿÿÿŠ@\_ ^B\_ +Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ fá\_ óŸ<L\$\_ ÄÄ\_ ÄÄ\_  
D\_ □\_ 'ÿÿÿÿ+Äð@÷Ñ+ù‰L\$ \_<÷'ÿÿÿÿú+Äð@O<L\$\_ Áé\_ óŸ<L\$\_ fá\_ óŸ<L\$\_ « \_ \_ ] ^[fÄ\_ ÄÄ  
L~ Q~ 1\_ { { { Ä\_ üu\_ x\_ x\_ G\_ u\_ M\_ r\_ R\_ r\_ i\_ o\_ Á\_ ÷\_ l\_ ü\_ l\_ P\_ u\_ V\_ i\_  
[ i\_ š\_ u\_ f\_ Ÿ\_ f\_ T4\_ T3\_ C4\_ C3\_ T2\_ T1\_ C2\_ C1  
25 B\_ c\_ fileÿÿg\_ J:\Vb60\Line21\funct.c.drectve \_ (.text \_  
\_ .debug\$F \_ .text \_;  
\_ .data \_ .data \_ E\_ XDSMes\_ .debug\$F \_ .text \_; \_ XDSCont\_ .data  
\_ ! \_ ] \_ .debug\$F  
\_ .text \_ , \_ XDSDData \_ \_ .debug\$F \_ .text  
30 \_ Q\_ XDSEnd  
\_ .data \_ i\_ .data \_ Ô\_ .data \_ XDSDisp \_; \_ .debug\$F \_  
\_ .text \_ F\_ .debug\$F \_ .text \_ E\_ S\_ .debug\$F \_ .text \_ I \_]  
\_ .debug\$F \_ .text \_ l\_ j\_ .debug\$F \_ .text \_ C\_ x\_  
\_ .debug\$F \_ .text \_ I\_ ‡\_ .debug\$F \_ .text \_ 2\_ >\_ .debug\$F \_ .text  
35 \_ \$ \_ .debug\$F! \_ .text" \_ 7 ^ \_ " \_ .debug\$F# \_ " \_ .text\$ \_ B\_ Ä\_ \$  
\_ .data% \_ Ä\_ % \_ .data& \_ ä\_ & \_ .data' \_ ý\_ ' \_ .data( \_ ( \_ .data) \_ / \_ ) \_ .data\*\_ \_ H  
\_ \* \_ .data+ \_ h\_ + \_ .data, \_ □ \_ , \_ .data- \_ š\_ -  
\_ CType\_ .debug\$F\_ \_ \$ \_ 3\_ XDSBegin\_ XDSEnd??\_ C@\_ 0BE@FLOP@?5?5Error?3?5?  
5Overwrite?5\$AA@??\_ C@\_ 04EPNH@XDS?5?5\$AA@??\_ C@\_ 0CB@OHLK@?5?5Error?3?  
40 5?5Continue?5with?5no?5Start@\_ MaxLength??\_ C@\_ 0BI@LPLM@?5?5Error?3?5?5bad?5  
check?5sum?5\$AA@??\_ C@\_ 0BJ@ICAC@?5?5Error?3?5?5too?5many?5bytes?5\$AA@??\_ C  
@\_ 0BI@NPMA@?5?5Error?3?5?5too?5few?5bytes?5\$AA@\_ MinLength\_ ControlSave\_ Data  
Save\_PopOnDecode\_RollUpDecode\_PaintOnDecode\_EndOfCaptionDecode\_TextDecode\_U  
RLDecode\_ChannelChange\_DumpText??\_ C@\_ 04DILL@T4?5?5\$AA@??\_ C@\_ 04IGNK  
45 @T3?5?5\$AA@??\_ C@\_ 04JHCE@C4?5?5\$AA@??\_ C@\_ 04CJEF@C3?5?5\$AA@??\_ C

“66666” 3031.5555

[illegible]

File: L21Dec.obj

```

L__m™9"!directveİ
5  _text_8_P'.debug$F_@_P_H_B.text"Z____P'.debug$F_p_€_H_B.textzŠ____
   _P'.debug$F_,<_H_B.text
   F_P'.debug$F_S_c_H_B.text
   m_P'.debug$F_z_Š_H_B-defaultlib:LIBCMT-defaultlib:OLDNAMES -
   export:_Line21Decode@12-export:_ShiftRight@8-export:_ShiftLeft@8,_Â_
10  _<T$SV3ÉW...ÖupÇ_,£P°<_%,T°<_%J<_%J<_3ö,_%J<_%J_°€3ÿ<_fÆ0J%¼3
   _uiHuã3Â_^[Âfú_t_fú_u_ŠL$_<D$_€á□PQÆRèfÃ3Â_^[Â_____#/_8_A_Q
   _a_™_____S_iV3Û<t$WŠ$_U<¬°L°<|$_<Â<
   fÂ_QWSVÿ_fÄ_...Àu_<ÂfÂ_f8uöfÂ_ëÜf}t_<Â<
   fÂ_QWSVÿ_fÄ_f}uæ<E_<
15  ]_%,,±L°^[Â_"_O_j_z____<D$_ŠL$_ÓèÂ_
   ____<D$_ŠL$_ÓàÂ_
   ____filepÿg_J:\Vb60\Line21\L21Dec.c.directive__1_CCstateX°____.text____
   ____debug$F____.text____"____,____.debug$F____.text_z_7_
   ____debug$F____.text____
20  _E_.debug$F____.text
   _
   _S
   ____debug$F____
   _cStatePtr_DllMain@12_Line21Decode@12_DataState_stateMachine_ShiftRight@8_Shif
25  tLeft@8

```

00000000: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

File: Line21.dll

**DYNAMIC LINK LIBRARY**

5 **32bit for Windows 95 and Windows NT**

***Technical File Information:***

**Image File Header**

10

\_\_\_\_\_*Signature:* 00004550  
          *Machine:* Intel 386  
          *Number of Sections:* 0005  
          *Time Date Stamp:* 39996d0e  
15        *Symbols Pointer:* 00000000  
          *Number of Symbols:* 00000000  
          *Size of Optional Header* 00e0  
          *Characteristics:* File is executable (i.e. no unresolved external references).  
                              Line numbers stripped from file.  
20                            Local symbols stripped from file.  
                              32 bit word machine.  
                              File is a DLL.

25

**Image Optional Header**

30

\_\_\_\_\_*Magic:* 010b  
          *Linker Version:* 3.00  
          *Size of Code:* 00003800  
          *Size of Initialized Data:* 00012000  
          *Size of Uninitialized Data:* 00000000  
          *Address of Entry Point:* 00002680  
          *Base of Code:* 00001000  
35        *Base of Data:* 00005000  
          *Image Base:* 10000000  
          *Section Alignment:* 00001000  
          *File Alignment:* 00000200  
          *Operating System Version:* 4.00  
40        *Image Version:* 0.00  
          *Subsystem Version:* 4.00  
          *Reserved1:* 00000000  
          *Size of Image:* 00019000  
          *Size of Headers:* 00000400  
45        *Checksum:* 00000000  
          *Subsystem:* Image runs in the Windows GUI subsystem.

DLL Characteristics: 0000  
 Size of Stack Reserve: 00100000  
 Size of Stack Commit: 00001000  
 Size of Heap Reserve: 00100000  
 5 Size of Heap Commit: 00001000  
 Loader Flags: 00000000  
 Size of Data Directory: 00000010  
 Export Directory Virtual Address: 00005060  
 Export Directory Size: 00000073  
 10 Import Directory Virtual Address: 00017000  
 Import Directory Size: 00000028  
 Base Relocation Table  
 Virtual Address: 00018000  
 Base Relocation Table Size: 00000c40

15

### Export Table

20 \_\_\_\_\_ Name: Line21.dll  
 Characteristics: 00000000  
 Time Date Stamp: 39996d0e  
 Version: 0.00  
 Base: 00000001  
 25 Number of Functions: 00000003  
 Number of Names: 00000003

	Ordinal	Entry Point	Name
	0000	00001010	Line21Decode
30	0001	00001150	ShiftLeft
	0002	00001140	ShiftRight

### Import Table

35

KERNEL32.dll

Ordinal	Function Name
---------	---------------

	0092	GetACP
40	0103	GetProcAddress
	00eb	GetModuleHandleA
	0137	GetVersion
	0062	ExitProcess
	00c7	GetCurrentThreadId
45	0222	TlsSetValue
	021f	TlsAlloc

	0220	TlsFree
	01fd	SetLastError
	0221	TlsGetValue
	00e1	GetLastError
5	0155	HeapCreate
	0157	HeapDestroy
	01fa	SetHandleCount
	00dc	GetFileType
	0116	GetStdHandle
10	0114	GetStartupInfoA
	0044	DeleteCriticalSection
	00e9	GetModuleFileNameA
	0098	GetCPIInfo
	009f	GetCommandLineA
15	00f6	GetOEMCP
	008b	FreeEnvironmentStringsA
	00d0	GetEnvironmentStrings
	008c	FreeEnvironmentStringsW
	00d2	GetEnvironmentStringsW
20	0242	WideCharToMultiByte
	024f	WriteFile
	0164	InitializeCriticalSection
	004f	EnterCriticalSection
	0177	LeaveCriticalSection
25	0153	HeapAlloc
	0159	HeapFree
	0178	LoadLibraryA
	0083	FlushFileBuffers
	0016	CloseHandle
30	0206	SetStdHandle
	01f8	SetFilePointer

### Section Table

35	Section name:	.text
	Virtual Size:	0000379b
	Virtual Address:	00001000
	Size of raw data:	00003800
40	Pointer to Raw Data:	00000400
	Pointer to Relocations:	00000000
	Pointer to Line Numbers:	00000000
	Number of Relocations:	0000
	Number of Line Numbers:	0000
45	Characteristics:	Section contains code Section is executable

Section is readable

5	Section name:	.rdata
	Virtual Size:	000000d3
	Virtual Address:	00005000
	Size of raw data:	00000200
	Pointer to Raw Data:	00003c00
10	Pointer to Relocations:	00000000
	Pointer to Line Numbers:	00000000
	Number of Relocations:	0000
	Number of Line Numbers:	0000
	Characteristics:	Section contains initialized data
15		Section is readable
	Section name:	.data
20	Virtual Size:	00010648
	Virtual Address:	00006000
	Size of raw data:	00004400
	Pointer to Raw Data:	00003e00
	Pointer to Relocations:	00000000
25	Pointer to Line Numbers:	00000000
	Number of Relocations:	0000
	Number of Line Numbers:	0000
	Characteristics:	Section contains initialized data
		Section is readable
30		Section is writeable
	Section name:	.idata
35	Virtual Size:	00000420
	Virtual Address:	00017000
	Size of raw data:	00000600
	Pointer to Raw Data:	00008200
	Pointer to Relocations:	00000000
40	Pointer to Line Numbers:	00000000
	Number of Relocations:	0000
	Number of Line Numbers:	0000
	Characteristics:	Section contains initialized data
		Section is readable
45		Section is writeable



Section name: .reloc  
 Virtual Size: 00000ed6  
 5 Virtual Address: 00018000  
 Size of raw data: 00001000  
 Pointer to Raw Data: 00008800  
 Pointer to Relocations: 00000000  
 Pointer to Line Numbers: 00000000  
 10 Number of Relocations: 0000  
 Number of Line Numbers: 0000  
 Characteristics: Section contains initialized data  
 Section can be discarded  
 Section is readable

15

### Header Information

Signature: 5a4d  
 20 Last Page Size: 0090  
 Total Pages in File: 0003  
 Relocation Items: 0000  
 Paragraphs in Header: 0004  
 Minimum Extra Paragraphs: 0000  
 25 Maximum Extra Paragraphs: ffff  
 Initial Stack Segment: 0000  
 Initial Stack Pointer: 00b8  
 Complemented Checksum: 0000  
 Initial Instruction Pointer: 0000  
 30 Initial Code Segment: 0000  
 Relocation Table Offset: 0040  
 Overlay Number: 0000  
 Reserved: 0000 0000 0000 0000  
 0000 0000 0000 0000  
 35 0000 0000 0000 0000  
 0000 0000 0000 0000  
 Offset to New Header: 00000080  
 Memory Needed: 2K

40

File: Line21.exp

```
L__mTM9R__.edatasdØ
5 @@.drectve_<_
__mTM9F__(4@Q^h__Line21.dllLine21DecodeShiftLeftShiftRight__$(_4_,_8_0_<_
/DLL
/OUT:Line21.dll.edata__&_E_7_ÜLine21DecodeShiftRightShiftLeft_Line21Decode@12_S
hiftRight@8_ShiftLeft@8_imp_Line21Decode@12_imp_ShiftLeft@8_imp_ShiftRig
10 ht@8_IMPORT_DESCRIPTOR_Line21__NULL_IMPORT_DESCRIPTOR_Line21_NU
LL_THUNK_DATA
```

Line21.exp

File: Line21.lib

```

!<arch>
5 / 966356238 0 222 '
    _p_~
    _R_p_p_~
    _s_Line21Decode@12_ShiftLeft@8_ShiftRight@8_IMPORT_DESCRIPTOR_Line21_N
    ULL_IMPORT_DESCRIPTOR_imp_Line21Decode@12_imp_ShiftLeft@8_imp_Sh
10 iftRight@8_Line21_NULL_THUNK_DATA/ 966356238 0 244 '
    R_p_s_p_
    ~
    -
    Line21Decode@12_ShiftLeft@8_ShiftRight@8_IMPORT_DESCRIPTOR_Line21_
    NULL_IMPORT_DESCRIPTOR_imp_Line21Decode@12_imp_ShiftLeft@8_imp_
    ShiftRight@8_Line21_NULL_THUNK_DATALine21.dll/ 966356238
15 0 592 '
    L_mTM9_à_.idata$2_D_X_@_À.idata$6v_X_@
    À_Line21.dll_.idata$2@_À_h.idata$6_.idata$4@_À_h.idata$5@_À_h_8_P_IMPORT
    T_DESCRIPTOR_Line21_NULL_IMPORT_DESCRIPTOR_Line21_NULL_THUNK_D
20 ATALine21.dll/ 966356238 0 127 '
    L_mTM9P_.idata$3_<@_À_NULL_IMPORT_DESCRIPTOR
    Line21.dll/ 966356238 0 154 '
    L_mTM9I_.idata$5_d@0À.idata$4_h@0À_Line21_NULL_THUNK_DATALine21.
    dll/ 966356238 0 492 '
25 L_mTM9ð_.text'_o_'.idata$5_ÄÈ_@_0À.idata$4_ÖÖ_@_0À.idata$6_à@_
    Äÿ%_Line21Decode.text_□`Ä
    __.idata$5_□`Ä_.idata$4_□`Ä.idata$6_□`Ä_6_imp_Line21Decode
    @12_IMPORT_DESCRIPTOR_Line21Line21.dll/ 966356238 0 484 '
30 L_mTM9i_.text'_o_'.idata$5_ÄÈ_@_0À.idata$4_ÖÖ_@_0À.idata$6_à@_
    Äÿ%_ShiftLeft.text_□`Ä
    __.idata$5_□`Ä_.idata$4_□`Ä.idata$6_□`Ä_2_imp_ShiftLeft@8_I
    MPORT_DESCRIPTOR_Line21Line21.dll/ 966356238 0 487 '
35 L_mTM9î_.text'_o_'.idata$5_ÄÈ_@_0À.idata$4_ÖÖ_@_0À.idata$6_à@_
    Äÿ%_ShiftRight.text_□`Ä
    __.idata$5_□`Ä_.idata$4_□`Ä.idata$6_□`Ä_3_imp_ShiftRight@8
    _IMPORT_DESCRIPTOR_Line21
40

```

VCPC0...z&amp;□Xü

[illegible]

5  
10  
15  
20  
25  
30  
35  
40  
45



```

5 yyyyyyyyyyyyyyyyyyy Jk0__yÿ
   _p_€ñ
   __€_ñ
10 _p_ñ
    ___ñ
    ___ñ___ònñ
       ____
           ____
15 _____ñ
      _____ñ
      _p_ñ
      _p_ñ
      _p_€_ñ
20 _p_ñ"_€_MIDL_STUB_MESSAGEñ____
     _____
         _____
        _f_____pfnTranslateToXmitñ_____pfnTranslateFromXmitóòñ_____pfnFreeXmit_____
        _____pfnFreeInst&_____XMIT_ROUTINE_QUINTUPLE_____
25 _____
            _____
                _____
                    F_____pObjóòñ_u____Sizeóòñ_____pfnBind_____
30 _____pfnUnbindòñ&_____GENERIC_BINDING_INFOñ
   _____ñŽ_____
       reserved1òñ_"____dataRepresentationñ_____Bufferñ_"____cbBufferóòñ_"____iMe
thod_____reserved2òñ_"_(rpcFlagsóòñ"_____,tagRPCOLEMESSAGEóòñ____u
   _____
35 !_____
       #_&"____pfnAllocate_$____pfnFree"____%____MALLOC_FREE_STRUCT&_____
       pfnBind_____
           pfnUnbindòñ._'_____GENERIC_BINDING_ROUTINE_PAIRòñ*"_____
40 CommOffsetñ_____FaultOffset")_l0_+k™9_____
   _____Debug/XDSROM.objF____<Microsoft (R) 32-bit C/C++ Optimizing Compiler
Version 10.00_____MaxLength____~_____MinLength_____XDSMes_____,_
   _____XDSDisp____:_
70 _____mpaaRatings____8:_
   _____tvpG Ratings____X:_____flagmask____`_:_____types____à;_____

```

\_\_CType\_\_ XMIT\_ROUTINE\_QUINTUPLE\_\_ GENERIC\_BINDING\_INFO\_\_  
tagRPCOLEMESSAGE\_ &\_ MALLOC\_FREE\_STRUCT" (\_\_ GENERIC\_BINDING  
ROUTINE\_PAIR\_ &\_ MALLOC\_FREE\_STRUCT\_ \* \_ COMM\_FAULT\_OFFSETS"  
\_ FULL\_PTR\_TO\_REFID\_ELEMENT" (\_\_ GENERIC\_BINDING\_ROUTINE\_PAIR\_  
5 \_ XMIT\_ROUTINE\_QUINTUPLE"\_, \_ PFULL\_PTR\_TO\_REFID\_ELEMENT  
\_ 1 \_ GUID\_ 3 \_ LPCLSID\_ 6 \_ tagENHMETARECORD  
\_ 1 \_ GUID\_ L \_ MIDL\_STUB\_DESC\_ S \_ FULL\_PTR\_XLAT\_TABLES\_\_ PROP  
SHEETPAGEA\_ f \_ PROPSHEETPAGEW  
\_ 1 \_ CLSID\_, \_ IRpcChannelBufferVtbl\_, \_ DLGTEMPLATE\_ ‡ \_ RPC\_SYNTAX\_ID  
10 ENTIFIER\_ @ \_ EXCEPTION\_RECORD\_ Z \_ OVERLAPPED\_ ' \_ FLOATING\_SA  
VE\_AREA  
\_ 1 \_ IID\_, \_ DLGTEMPLATE\_\_ PROPS\_(,žž\$,žž\$,žž\$ \_ HEETPAGEA\_ ' \_ LPDL  
GTEMPLATEA\_ f \_ PROPSHEETPAGEW\_ " \_ tagPOINT\_ —  
\_ CONTEXT\_ TM \_ RPC\_VERSION  
15 \_ " \_ POINT\_ — \_ CONTEXT  
\_ 3 \_ LPID\_ %o \_ PEXCEPTION\_RECORD\_ > \_ val\_context  
\_ HDWP  
\_ u \_ PUINT\_\_ RPC\_SS\_THREAD\_HANDLE\_ X \_ CALINFO\_ENUMPROCW\_\_ R  
PC\_AUTH\_IDENTITY\_HANDLE\_ 6\_  
20 ENHMETARECORD&  
\_ SECURITY\_CONTEXT\_TRACKING\_MODE\_ X \_ DATEFMT\_ENUMPROCW\_ t\_  
PSID\_NAME\_USE\_\_ MIDICALLBACK@20" !\_ SECURITY\_DESCRIPTOR\_CONTROL  
\_ \_  
\_ EXPR\_EVAL\_ ž \_ LPFRHOOKPROC\_ X \_ CALINFO\_ENUMPROCA\_ i \_ PFNC  
25 ALLBACK\_ X \_ DATEFMT\_ENUMPROCA\_ □ \_ ICMENUMPROCW\_ © \_  
PQUERYHANDLER  
\_ @ \_ FLOAT\_ " \_ LPDWORD\_\_ RPC\_AUTHZ\_HANDLE\_ u \_ MMVERSION  
\_ HRSRC\_\_ RPC\_FORWARD\_FUNCTION@20" \_ @ \_ PTOP\_LEVEL\_EXCEPTION\_F  
ILTER  
30 \_ HCONV  
\_ \_  
\_ BYTE\_\_ LONGLONG\_ a \_ LPPROPSHEETPAGEW\_ ± \_ ICMENUMPROCA\_ ! \_ LP  
WSTR\_ " \_ ACCESS\_MASK\_ " \_ COLORREF\_ Z \_ LPPROPSHEETPAGEA\_ ' \_ PIMAG  
E \_ TLS\_CALLBACK\_\_ HWAVEOUT\_ \$ \_ PRPC\_RUNDOWN\_\_ HENHMETAFILE  
35 \_ t \_ PBOOL\_ ‡ \_ RPC\_SYNTAX\_IDENTIFIER\_ X \_ DESKTOPENUMPROCW\_ " \_ u \_ lo  
ng  
\_ t \_ SPTR\_ ! \_ LPOLESTR\_\_ NDR\_CCONTEXT  
\_ u \_ UINT\_ X \_ WNDENUMPROC\_ X \_ DESKTOPENUMPROCA\_ ¶ \_ WNDPROC\_ "  
\_ HREFTYPE\_ # \_ DWORDLONG  
40 \_ p \_ LPSTR\_ t  
\_ TOKEN\_TYPE  
\_ ! \_ BSTR\_  
\_ RPC\_NS\_HANDLE  
\_ HDESK\_ " \_ PDWORD\_ ° \_ EXCEPTION\_POINTERS\_ !  
45 CLIPFORMAT\_ ! \_ LPWORD\_ t \_ TYPEKIND\_ X \_ CODEPAGE\_ENUMPROCW



\_p\_HPSTR\_d\_LPFNPSPCALLBACKW\_!\_OLECHAR\_X\_ENUMRESLANGPROC  
 \_t\_VARKIND\_X\_CODEPAGE\_ENUMPROCA\_]\_LPFNPSPCALLBACKA\_\_\_\_  
 RPC\_BUFPTR\_X\_WINSTAENUMPROCW\_½\_RPC\_AUTH\_KEY\_RETRIEVAL\_FN  
 \_!\_LPCOLESTR\_\_\_\_SC\_HANDLE  
 5 \_HTASK\_À\_REGISTERWORDENUMPROCW\_X\_TIMEFMT\_ENUMPROCW\_  
 X\_WINSTAENUMPROCA  
 \_!\_ATOM\_!\_LPCWSTR\_X\_DLGPROC\_Ã\_REGISTERWORDENUMPROCA\_\_\_\_  
 \_HOLEMENU  
 \_t\_BOOL\_\_RPC\_OBJECT\_INQ\_FN@12  
 10 \_"ULONG\_X\_TIMEFMT\_ENUMPROCA\_«\_PEXCEPTION\_POINTERS\_Æ\_tag  
 HELPINFO\_t\_CALLCONV\_\_\_\_LPMENUTEMPLATEA\_\_\_\_HGLOBAL\_\_\_\_LPVOI  
 D\_\_\_\_  
 RPC\_IF\_HANDLE\_X\_HOOKPROC  
 \_p\_PSTR\_ž\_LPCFHOOKPROC\_!\_USHORT\_7\_  
 15 LPHMIDIOUT\_\_\_\_HRESULT\_\_\_\_  
 \_PUCHAR\_\_\_\_DISPID\_È\_PFULL\_PTR\_XLAT\_TABLES\_ž\_LPCCHOOKPROC\_\_\_\_  
 \_LPBYTE  
 \_X\_PROC  
 \_A\_DATE\_Ð\_  
 20 ENHMFENUMPROC  
 \_\_\_\_PSID  
 \_t\_LPINT  
 \_N\_SNB  
 \_p\_CHAR\_p\_LPCSTR\_Ó\_SERVER\_ROUTINE  
 25 \_\_\_\_SCODE&Ø\_LPOVERLAPPED\_COMPLETION\_ROUTINE\_Û\_  
 YIELDPROC\_!\_VARTYPE\_\_\_\_HWAVEIN\_ß\_IRpcChannelBuffer\_ß\_IRpc  
 ChannelBuffer\_ž\_LPPAGEPAINTHOOK\_t  
 OLERENDER\_u\_LPUINT\_X\_GOBJENUMPROC\_\_\_\_  
 HMETAFILEPICT\_N\_LPBSTR  
 30 \_byte\_@\_PFLOAT\_"\_PSECURITY\_INFORMATION\_\$\_NDR\_RUNDOWN\_\_\_\_  
 LPCVOID\_"\_SERVICE\_STATUS\_HANDLE\_ž\_LPPAGESETUPHOOK  
 \_u\_u\_int\_!\_wint\_t\_â\_  
 LPMMIOPROC\_\_\_\_  
 35 STUB\_THUNK  
 \_!\_WCHAR\_\_\_\_HGDIOBJ\_X\_ENUMRESNAMEPROC\_\_\_\_HCONVLIST  
 \_\_\_\_HSZ  
 \_t\_INT\_\_\_\_HDDATA\_â\_tagHANDLETABLE\_X\_FARPROC\_X\_  
 PROPENUMPROCW\_"\_MCIERROR\_t\_LPBOOL  
 40 \_\_\_\_PLONG\_u\_WPARAM  
 \_\_\_\_HMMIO\_ž\_  
 LPOFNHOOKPROC\_ç\_HPROPSHEETPAGE\_QUERYHANDLER\_X\_  
 PROPENUMPROCA  
 \_\_\_\_HKL\_\_\_\_HACCEL\_"  
 45 RPCOLEDATAREP\_VARIANT\_BOOL\_\_\_\_HCURSOR\_7\_PHANDLE\_é\_  
 \_onexit\_t\_X\_

FONTENUMPROCW \_\_ " \_LCTYPE \_\_ i \_\_RPC\_DISPATCH\_FUNCTION  
\_\_ " \_CALID \_\_  
RPC\_STATUS \_\_ HMIDIIN  
\_\_ HDC \_\_ o \_\_MSGBOXCALLBACK \_\_X\_\_  
5 FONTENUMPROCA \_\_ GENERIC\_UNBIND\_ROUTINE \_\_ HBITMAP \_\_ LPARA  
M \_\_  
MENUTEMPLATEW \_\_ 7 \_\_LPHMIDISTRM \_\_t\_\_TOKEN\_INFORMATION\_CLASS \_\_D  
RVCALLBACK@20 \_\_ ÷ \_\_RPC\_MESSAGE \_\_  
MENUTEMPLATEA  
10 \_\_ HMIDI \_\_ u \_\_PFNPROPSHEETCALLBACK \_\_PSECURITY\_DESCRIPTOR  
\_\_ HMENU \_\_ HWINSTA \_\_  
LCSGAMUTMATCH \_\_RPC\_CLIENT\_FREE@4 \_\_ ý \_\_PMIDL\_STUB\_DESC  
\_\_ LONG \_\_ NDR\_SCONTEXT \_\_  
ARRAY\_INFO \_\_p\_\_va\_list \_\_7 \_\_LPHMIXER \_\_X\_\_ TIMERPROC \_\_X\_\_  
15 DRAWSTATEPROC \_\_ HINSTANCE \_\_ " \_FOURCC \_\_  
\_\_ MIDL\_STUB\_MESSAGE \_\_ " \_SECURITY\_INFORMATION \_\_X\_\_ENUMRESTYPEP  
ROC \_\_ a \_\_HANDLETABLE \_\_7 \_\_LPHWAVEIN \_\_  
\_\_ PFORMAT\_STRING \_\_ " \_CALTYPE \_\_7 \_\_LPHANDLE \_\_RPC\_MGMT\_AUTHORI  
ZATION\_FN \_\_ ! \_\_LANGID \_\_t\_\_SECURITY\_IMPERSONATION\_LEVEL \_\_u\_\_SOCKET \_\_  
20 \_\_BOOLEAN \_\_7 \_\_RPC\_EP\_INQ\_HANDLE  
\_\_ HWND \_\_ MMIOPROC@16 \_\_LPHANDLER\_FUNCTION \_\_t\_\_EXCEPTION\_DIS  
POSITION \_\_t\_\_XLAT\_SIDE  
\_\_ HHOOK \_\_ LPTHREAD\_START\_ROUTINE \_\_7\_\_  
LPHWAVEOUT \_\_ HPALETTE \_\_X\_\_PROPENUMPROCEXW \_\_HMODULE \_\_W\_\_  
25 AVECALLBACK@20 \_\_RPC\_CLIENT\_ALLOC@4 \_\_HANDLE \_\_HMIXER  
\_\_ ! \_\_PWORD \_\_X\_\_PROPENUMPROCEXA \_\_HCOLORSPACE \_\_X\_\_EDITWORDBR  
EAKPROCA \_\_ GENERIC\_BINDING\_ROUTINE \_\_ ! \_\_u\_\_short \_\_7\_\_  
LPHMIDIIN \_\_X\_\_LOCALE\_ENUMPROCW  
\_\_ " \_DWORD \_\_X\_\_GRAYSTRINGPROC \_\_t\_\_DESKIND  
30 \_\_7 \_\_PHKEY \_\_" ® \_\_LPTOP\_LEVEL\_EXCEPTION\_FILTER  
\_\_ " \_LCID \_\_LPFNADDPROPSHEETPAGE \_\_u\_\_char \_\_X\_\_LOCALE\_ENUMPROCA  
\_\_ HRGN \_\_t\_\_ACL\_INFORMATION\_CLASS \_\_t\_\_SYSKIND \_\_TIMECALLBACK@20 \_\_  
\_\_PACCESS\_TOKEN \_\_SC\_LOCK \_\_X\_\_LINEDDAPROC \_\_PHANDLER\_ROUTIN  
35 E \_\_ ! \_\_PSECURITY\_DESCRIPTOR\_CONTROL \_\_t\_\_FUNCKIND \_\_  
FXPT2DOT30 \_\_LPLONG  
\_\_ HGLRC \_\_ HMIDIOUT \_\_t\_\_  
INVOKEKIND \_\_ HMIDISTRM  
\_\_ HFONT \_\_  
40 \_\_ HPEN \_\_  
\_\_ HICON \_\_  
\_\_ PVOID \_\_  
tagMETARECORD \_\_ " \_REGSAM \_\_t\_\_ OLEUPDATE \_\_u\_\_MCIDEVICEID \_\_  
\_\_ LPSERVICE\_MAIN\_FUNCTIONW \_\_  
45 \_\_ ! \_\_WORD \_\_ HMETAFILE \_\_X\_\_ ABORTPROC

```

HDRV_ $ _LPSERVICE_MAIN_FUNCTIONA _ž _LPPRINTHOOKPROC _u_si
ze_t _ LCSCSTYPE
_PBYTE _LRESULT_)
MFENUMPROC
5 _é_ FPTR
_HKEY
_UCHAR _PTHREAD_START_ROUTINE _!_ wctype_t _I_RPC_HANDLE
_HDROP _MEMBERID
_SHORT _!_ wchar_t _u_ MMRESULT _XMIT_HELPER_ROUTINE _RPC_BI
10 NDING_HANDLE
"_ _HIMC _I_RPC_MUTEX
_HMIXEROBJ _ž _LPSETUPHOOKPROC _RPC_BLOCKING_FUNCTION_
_HBRUSH _X_
SENDASYNCPROC _!_ FILEOP_FLAGS _/_ LPTIMECALLBACK _handle_t _H
15 LOCAL
_t_HFILE _Debug/funct.objF _<Microsoft (R) 32-bit C/C++ Optimizing Compiler
Version 10.00. _Ø* % _3 _XDSTBegin _field _ch _p _mes _1_
cStatePtr _P > 9 _Ë 3 _XDSTStart _field _ch _p _mes _1_
cStatePtr _Ë > 9 _3 _XDSCont _field _ch _p _mes _1_
20 cStatePtr _@ _F 3 _XDSDData _field _ch _p _mes _1_
cStatePtr *_ 'E @ Z 3 _XDSEnd _field _ch _p _mes _1_
cStatePtr _2 0 $ _ÿ 3 _ControlSave _field _ch _p _mes _1_
cStatePtr _I ½ _Ä 3 _DataSave _field _ch _p _mes _1_
cStatePtr
25 _öÿÿÿt_m
_öÿÿÿt_f
_üÿÿÿt_c _2 _T € {€ 3 _PopOnDecode _field _ch _p _mes _1_ cStatePtr
_üÿÿÿt_f _2 _è _Ö _Đ 3 _RollUpDecode _field _ch _p _mes _1_ cStatePtr
_öÿÿÿt_f
30 _üÿÿÿt_c _2 _p _€ {Ö 3 _
PaintOnDecode _field _ch _p _mes _1_ cStatePtr
_üÿÿÿt_f _6 _ü _€ {U 3 _EndOfCaptionDecode _field _ch _p _mes _1_
cStatePtr
_üÿÿÿt_f _€ ^ _YÖ 3 _
35 TextDecode _field _ch _p _mes _1_ cStatePtr
_üÿÿÿt_f _ø _)$ 3 _URLDecode _field _ch _p _mes _1_
cStatePtr _2 _€ l _g\ 3 _
ChannelChange _field _ch _p _mes _1_ cStatePtr
_üÿÿÿt_f _Ä _ı _Ë 3 _DumpText _field _ch _p _mes _1_ cStatePtr
40 _öÿÿÿt_m
_öÿÿÿt_f
_üÿÿÿt_c _MaxLength _~ _MinLength _XDSMes _
_XDSDisp _à; 4 _CType _XMIT_ROUTINE_QUINTUPLE _GENE
RIC_BINDING_INFO _tagRPCOLEMESSAGE _& _MALLOC_FREE_STRUCT"_(
45 _GENERIC_BINDING_ROUTINE_PAIR _& _MALLOC_FREE_STRUCT *_ _CO
_MM_FAULT_OFFSETS" _FULL_PTR_TO_REFID_ELEMENT" _(_GENERIC_BIND

```

ING\_ROUTINE\_PAIR\_\_\_\_\_XMIT\_ROUTINE\_QUINTUPLE"\_,\_PFULL\_PTR\_TO\_REFI  
D\_ELEMENT  
1\_\_GUID\_3\_\_LPCLSID\_6\_\_tagENHMETARECORD  
1\_\_GUID\_L\_\_MIDL\_STUB\_DESC\_S\_\_FULL\_PTR\_XLAT\_TABLES\_\_\_\_\_PROP  
5 SHEETPAGEA\_f\_\_PROPSHEETPAGEW  
1\_\_CLSID\_7\_\_XDSSState\_,\_IRpcChannelBufferVtbl\_,\_DLGTEMPLATE\_‡\_\_RP  
C\_SYNTAX\_IDENTIFIER\_‡\_\_EXCEPTION\_RECORD\_‡\_\_OVERLAPPED\_‘\_\_\_\_  
FLOATING\_SAVE\_AREA  
1\_\_IID\_,\_DLGTEMPLATE\_\_\_\_\_PROPSHEETPAGEA\_’\_LPDLGTEMPLATEA\_f  
10 \_\_PROPSHEETPAGEW  
9\_sval\_”\_\_tagPOINT\_\_\_\_CONTEXT\_™\_\_RPC\_VERSION  
”\_\_POINT\_\_\_\_CONTEXT  
3\_\_LPIID\_%o\_\_PEXCEPTION\_RECORD  
9\_\_SVAL\_›\_val\_context  
15 \_\_HDWP\_H\_cState  
u\_\_PUINT\_\_\_\_\_RPC\_SS\_THREAD\_HANDLE\_X\_\_CALINFO\_ENUMPROCW\_\_\_\_\_R  
PC\_AUTH\_IDENTITY\_HANDLE\_6\_  
ENHMETARECORD&  
\_\_SECURITY\_CONTEXT\_TRACKING\_MODE\_X\_\_DATEFMT\_ENUMPROCW\_t\_  
20 PSID\_NAME\_USE\_\_MIDICALLBACK@20"!\_SECURITY\_DESCRIPTOR\_CONTROL  
\_\_\_\_\_  
EXPR\_EVAL\_‡\_\_LPFRHOOKPROC\_X\_\_CALINFO\_ENUMPROCA\_i\_\_PFNC  
ALLBACK\_X\_\_DATEFMT\_ENUMPROCA\_‡\_\_ICMENUMPROCW\_©\_  
PQUERYHANDLER  
25 \_\_@\_FLOAT\_”\_\_LPDWORD\_\_\_\_\_RPC\_AUTHZ\_HANDLE\_u\_\_MMVERSION  
\_\_\_\_HRSRC\_\_RPC\_FORWARD\_FUNCTION@20"@\_\_PTOP\_LEVEL\_EXCEPTION\_F  
ILTER  
\_\_\_\_HCONV  
\_\_\_\_\_  
30 \_\_BYTE\_\_\_\_LONGLONG\_a\_\_LPPROPSHEETPAGEW\_±\_\_ICMENUMPROCA\_!\_\_LP  
WSTR\_”\_\_ACCESS\_MASK\_”\_\_COLORREF\_Z\_\_LPPROPSHEETPAGEA\_’\_\_PIMAG  
E\_TLS\_CALLBACK\_\_\_\_\_HWAVEOUT\_\$\_\_PRPC\_RUNDOWN\_\_\_\_\_HENHMETAFILE  
\_t\_\_PBOOL\_‡\_\_RPC\_SYNTAX\_IDENTIFIER\_X\_\_DESKTOPENUMPROCW\_”\_u\_lo  
ng  
35 \_\_t\_\_SPTR\_!\_\_LPOLESTR\_\_\_\_NDR\_CCONTEXT  
\_u\_\_UINT\_X\_\_WNDENUMPROC\_X\_\_DESKTOPENUMPROCA\_¶\_\_WNDPROC\_”\_  
HREFTYPE\_#\_\_\_\_DWORDLONG  
\_p\_\_LPSTR\_t  
TOKEN\_TYPE  
40 \_\_!\_\_BSTR\_\_\_\_  
RPC\_NS\_HANDLE  
\_\_\_\_HDESK\_”\_\_PDWORD\_°\_\_EXCEPTION\_POINTERS\_!  
CLIPFORMAT\_!\_\_LPWORD\_t\_\_TYPEKIND\_X\_\_CODEPAGE\_ENUMPROCW  
\_p\_\_HPSTR\_d\_\_LPFNPPCALLBACKW\_!\_\_OLECHAR\_X\_\_ENUMRESLANGPROC  
45 \_\_t\_\_VARKIND\_X\_\_CODEPAGE\_ENUMPROCA\_]\_\_LPFNPPCALLBACKA\_\_\_\_

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RPC_BUFPTR_X_WINSTAENUMPROCW_½_RPC_AUTH_KEY_RETRIEVAL_FN
!_LPCOLESTR_____SC_HANDLE
_____HTASK_À_REGISTERWORDENUMPROCW_X_TIMEFMT_ENUMPROCW_
X_WINSTAENUMPROCA
5  !_ATOM!_LPCWSTR_X_DLGPROC_Ã_REGISTERWORDENUMPROCA_____
   _HOLEMENU
   _t_BOOL_RPC_OBJECT_INQ_FN@12
   "_ULONG_X_TIMEFMT_ENUMPROCA_«_PEXCEPTION_POINTERS_Æ_tag
HELPINFO__t_CALLCONV_____LPMENUTEMPLATEA_____HGLOBAL_____LPVOI
10 D_____
   RPC_IF_HANDLE_X_HOOKPROC
   _p_PSTR_ž_LPCFHOOKPROC!_USHORT_7_
   LPHMIDIOUT_____HRESULT_____
   _PUCHAR_____DISPID_È_PFULL_PTR_XLAT_TABLES_ž_LPCCHOOKPROC_____
15 _LPBYTE
   _X_PROC
   _A_DATE_Ð_____
   ENHMFENUMPROC
   _____PSID
20 _t_LPINT
   _Ñ_SNB
   _p_CHAR_p_LPCSTR_Ó_SERVER_ROUTINE
   _____SCODE&Ø_LPOVERLAPPED_COMPLETION_ROUTINE_Û_____
   YIELDPROC!_VARTYPE_____HWAVEIN_ß_IRpcChannelBuffer_ß_IRpc
25 ChannelBuffer_ž_LPPAGEPAINTHOOK_t
   OLERENDER_u_LPUINT_X_GOBJENUMPROC_____
   HMETAFILEPICT_Ñ_LPBSTR
   _____
30 _byte_@_PFLOAT_"_PSECURITY_INFORMATION$__NDR_RUNDOWN_____
   LPCVOID_"_SERVICE_STATUS_HANDLE_ž_LPPAGESETUPHOOK
   _u_u_int!_wint_t_â_____
   LPMMIOPROC_____
   STUB_THUNK
   !_WCHAR_____HGDIOBJ_X_ENUMRESNAMEPROC_____HCONVLIST
35 _____HSZ
   _t_INT_____HDDEDATA_â_tagHANDLETABLE_X_FARPROC_X_
   PROPENUMPROCW_"_MCIERROR_t_LPBOOL
   _____PLONG_u_WPARAM
   _____HMMIO_ž_____
40 LPOFNHOOKPROC_ç_HPROPSHEETPAGE_QUERYHANDLER_X_
   PROPENUMPROCA
   _____HKL_____HACCEL_"
   RPCOLEDATAREP_____VARIANT_BOOL_____HCURSOR_7_PHANDLE_é_____
   _onexit_t_X_____
45 FONTENUMPROCW_"_LCTYPE_î_RPC_DISPATCH_FUNCTION
   "_CALID_____

```

RPC\_STATUS\_\_\_\_HMIDIIN  
\_\_\_\_HDC\_ó\_MSGBOXCALLBACK\_X\_  
FONTENUMPROCA\_\_\_\_GENERIC\_UNBIND\_ROUTINE\_\_\_\_HBITMAP\_\_\_\_LPARA  
M\_\_\_\_  
5 MENUTEMPLATEW\_7\_LPHMIDISTRM\_t\_TOKEN\_INFORMATION\_CLASS\_\_D  
RVCALLBACK@20\_÷\_RPC\_MESSAGE\_\_\_\_  
MENUTEMPLATEA  
\_\_\_\_HMIDI\_ú\_PFNPROPSHEETCALLBACK\_\_\_\_PSECURITY\_DESCRIPTOR  
\_\_\_\_HMENU\_\_\_\_HWINSTA\_\_\_\_  
10 LCSGAMUTMATCH\_\_RPC\_CLIENT\_FREE@4\_ý\_PMIDL\_STUB\_DESC  
\_\_\_\_LONG\_\_\_\_NDR\_SCONTEXT\_\_\_\_  
\_\_\_\_ARRAY\_INFO\_p\_va\_list\_7\_LPHMIXER\_X\_\_\_\_TIMERPROC\_X\_\_\_\_  
DRAWSTATEPROC\_\_\_\_HINSTANCE\_\_\_\_FOURCC\_\_\_\_  
\_\_\_\_MIDL\_STUB\_MESSAGE\_\_\_\_"SECURITY\_INFORMATION\_X\_ENUMRESTYPEP  
15 ROC\_â\_HANDLETABLE\_7\_LPHWAVEIN\_\_\_\_  
\_\_\_\_PFORMAT\_STRING\_\_\_\_"CALTYPE\_7\_LPHANDLE\_\_\_\_RPC\_MGMT\_AUTHORI  
ZATION\_FN\_!LANGID"t\_SECURITY\_IMPERSONATION\_LEVEL\_\_\_\_fpos\_t\_u\_S  
OCKET\_\_\_\_BOOLEAN\_7\_RPC\_EP\_INQ\_HANDLE\_\_\_\_  
\_\_\_\_HWND\_\_\_\_MMIOPROC@16\_\_\_\_LPHANDLER\_FUNCTION\_t\_EXCEPTION\_DIS  
20 POSITION\_t\_XLAT\_SIDE\_\_\_\_  
\_\_\_\_HHOOK\_\_\_\_LPTHREAD\_START\_ROUTINE\_7\_\_\_\_  
LPHWAVEOUT\_\_\_\_HPALETTE\_X\_PROPENUMPROCEXW\_\_\_\_HMODULE\_\_\_\_W  
AVECALLBACK@20\_\_RPC\_CLIENT\_ALLOC@4\_\_\_\_HANDLE\_\_\_\_HMIXER  
!\_PWORD\_X\_PROPENUMPROCEXA\_\_\_\_HCOLORSPACE\_X\_EDITWORDBR  
25 EAKPROCA\_\_\_\_GENERIC\_BINDING\_ROUTINE\_!\_u\_short\_7\_\_\_\_  
LPHMIDIIN\_X\_LOCALE\_ENUMPROCW\_\_\_\_  
\_\_\_\_"DWORD\_X\_GRAYSTRINGPROC\_t\_DESKIND\_\_\_\_  
\_\_\_\_7\_PHKEY"@\_LPTOP\_LEVEL\_EXCEPTION\_FILTER\_\_\_\_  
\_\_\_\_"LCID\_\_\_\_LPFNADDPROPSHEETPAGE\_\_\_\_u\_char\_X\_LOCALE\_ENUMPROCA\_\_\_\_  
30 \_\_\_\_HRGN\_t\_ACL\_INFORMATION\_CLASS\_t\_SYSKIND\_\_\_\_TIMECALLBACK@20\_\_\_\_  
\_\_\_\_  
PACCESS\_TOKEN\_\_\_\_SC\_LOCK\_X\_LINEDDAPROC\_\_\_\_PHANDLER\_ROUTIN  
E"!\_PSECURITY\_DESCRIPTOR\_CONTROL\_t\_FUNCKIND\_\_\_\_  
FXPT2DOT30\_\_\_\_LPLONG\_\_\_\_  
35 \_\_\_\_HGLRC\_\_\_\_HMIDIOUT\_t\_\_\_\_  
INVOKEKIND\_\_\_\_HMIDISTRM\_\_\_\_  
\_\_\_\_HFONT\_\_\_\_  
\_\_\_\_HPEN\_\_\_\_  
\_\_\_\_HICON\_\_\_\_  
40 \_\_\_\_PVOID\_\_\_\_  
tagMETARECORD\_"REGSAM\_t\_\_\_\_OLEUPDATE\_u\_MCIDEVICEID\_\_\_\_  
\_\_\_\_LPSERVICE\_MAIN\_FUNCTIONW\_\_\_\_  
\_\_\_\_!\_WORD\_\_\_\_HMETAFILE\_X\_ABORTPROC\_\_\_\_  
\_\_\_\_HDRVR\_\$\_LPSERVICE\_MAIN\_FUNCTIONA\_ž\_LPPRINTHOOKPROC\_u\_si  
45 ze\_t\_\_\_\_LCSCSTYPE\_\_\_\_  
\_\_\_\_PBYTE\_\_\_\_LRESULT\_\_\_\_)

```
MFENUMPROC
_é_FPTR
_HKEY
_UCHAR_PTHREAD_START_ROUTINE !_wctype_t_I_RPC_HANDLE
5 _HDROP_MEMBERID
_SHORT !_wchar_t_u_MMRESULT_XMIT_HELPER_ROUTINE_RPC_BI
NDING_HANDLE
_"_HIMC_I_RPC_MUTEX
_HMIXEROBJ_ž_LPSETUPHOOKPROC_,_RPC_BLOCKING_FUNCTION_
10 _HBRUSH_X
SENDASYNCPROC !_FILEOP_FLAGS/_LPTIMECALLBACK_handle_t_H
LOCAL
_t_HFILE_<_<_<_J:\Vb60\Line21\funct.c±!_»_Å_Ê_Ð_Þ_
_P a □ ½ ù_M ^ Ž_Ÿ_Í_û_7_A_F_L_{_É_!_K_U_Z`_Ž_Ů_i_-
15 □_Ä_Ñ_Ö_#_S_d_i□_š_Ÿ_¥_´_¼_Ä_İ_Ö_à_í_U_q{_€_%o□_ž_®_¼_İ_Ò_à_
ñ_û_
_5:_A_N\ _v_,_ž_¬_Æ_Ð_Ö_Þ_â_ó_"_!_5_F_P_U^_e_s_f_´_¢_§_μ_
_Æ_Ð_Ö_Þ_â_ó_$_.3_9_C_M_W\ _e_l^~!_«_!_Ä_Ë_Ñ_Ø_â_ò_!+_5_F_p_
u_†_°_μ_¿_Ð_á_æ_÷_
20 _!_2\_a_r_æ_i_«_¼_İ_Ö_ä_ô_2[_}_‡_""#$%&-
./12345689@ABCDEFOPQSTUWYZ[_abcefhiopqry|}~□□,....Š□Ž□""—
™$□_¡_¢_£_¥_§_¨_©_ª_«_¬_®_±_µ_¶_·_¸_¹_º_»_¼_½_¾_À_Á_Â_Ã_Ä_Å_Æ_Ç_È_É_Ê_Ë_Ì_Í_Î_Ï_Ð_Ñ_Ò_Ó_Ô_Õ_Ö_×_Ø_Ù_Ú_Û_Ü_Ý_Þ_
-
!_#_%_&_(*_+/_1_3_5_6_8_:;_>_@_B_C_E_G_H_L_M_
25 N_P_Q_Debug/Parity.objF_<Microsoft (R) 32-bit C/C++ Optimizing Compiler
Version 10.00_
_I_parity_Debug/Tests.objF_<Microsoft (R) 32-bit C/C++ Optimizing Compiler
Version 10.002_Ü_`_3_DefaultTest_field_ch_p_mes_1_
cStatePtr_.T_.)u_3_NullTest_field_ch_p_mes_1_
30 cStatePtr_.İ_9_4f_3_F1XDSTest_field_ch_p_mes_1_
cStatePtr_2_H_F_AÜ_3_XDSSStartTest_field_ch_p_mes_1_
cStatePtr_2_Ä_I_D"
_3_XDSContTest_field_ch_p_mes_1_ cStatePtr_.</_*k
_3_
35 XDSEndTest_field_ch_p_mes_1_ cStatePtr_2_._=8š
_3_ControlTest_field_ch_p_mes_1_ cStatePtr_2_@_p_k×
_3_TextModeTest_field_ch_p_mes_1_ cStatePtr
_ü_ÿ_ÿ_ÿ_t_c_.Ä_p_kG_3_
RollUpTest_field_ch_p_mes_1_ cStatePtr
40 _ü_ÿ_ÿ_ÿ_t_c_2_L_b_]_3_PaintOnTest_field_ch_p_mes_1_ cStatePtr
_ü_ÿ_ÿ_ÿ_t_c_.Ð_b_]_3_PopOnTest_field_ch_p_mes_1_ cStatePtr
_ü_ÿ_ÿ_ÿ_t_c_6\_b_]_{_3_EndOfCaptionTest_field_ch_p_mes_1_
cStatePtr
_ü_ÿ_ÿ_ÿ_t_c_.à_N_IÝ_3_PACTest_field_ch_p_mes_1_ cStatePtr
45 _ü_ÿ_ÿ_ÿ_t_c_2_,_,^_f+_
_3_CtrlChangeTest_field_ch_p_mes_1_ cStatePtr
```

5    \_öýýt\_f\_öýýt\_ctrl  
      üýýt\_c\_\*\_b\_]³  
      3\_CRTTest\_field\_ch\_p\_mes\_1\_cStatePtr  
      üýýt\_c.^\\\_W\_3\_URLTest\_field\_ch\_p\_mes\_1\_cStatePtr  
      üýýt\_c.\_\$ \_V\_ Q\_q\_3\_  
      URLEndTest\_field\_ch\_p\_mes\_1\_cStatePtr  
      \_öýýt\_l  
      \_öýýt\_f  
10    \_üýýp\_t\_XMIT\_ROUTINE\_QUINTUPLE\_GENERIC\_BINDING\_INFO  
      tagRPCOLEMESSAGE\_&\_MALLOC\_FREE\_STRUCT"(\_GENERIC\_BINDING\_ROUTINE\_PAIR\_&\_MALLOC\_FREE\_STRUCT\*\_COMM\_FAULT\_OFFSET  
      S".\_FULL\_PTR\_TO\_REFID\_ELEMENT"(\_GENERIC\_BINDING\_ROUTINE\_PAIR  
      \_XMIT\_ROUTINE\_QUINTUPLE".\_PFULL\_PTR\_TO\_REFID\_ELEMENT  
      1\_GUID\_3\_LPCLSID\_6\_tagENHMETARECORD  
15    1\_GUID\_L\_MIDL\_STUB\_DESC\_S\_FULL\_PTR\_XLAT\_TABLES\_PROP  
      SHEETPAGEA\_f\_PROPSHEETPAGEW  
      1\_CLSID\_7\_XDSSState\_,\_IRpcChannelBufferVtbl\_,\_DLGTEMPLATE\_‡\_RPC\_SYNTAX\_IDENTIFIER\_¢\_EXCEPTION\_RECORD\_Ž\_OVERLAPPED\_‘  
      FLOATING\_SAVE\_AREA  
20    1\_IID\_,\_DLGTEMPLATE\_PROPSHEETPAGEA\_'\_LPDLGTEMPLATEA\_f  
      \_PROPSHEETPAGEW  
      9\_sval\_"\_tagPOINT\_CONTEXT™\_RPC\_VERSION  
      " \_POINT\_CONTEXT  
      3\_LPIID\_%o\_PEXCEPTION\_RECORD  
25    9\_SVAL\_›\_val\_context  
      \_HDWP\_H\_cState  
      \_u\_PUINT\_RPC\_SS\_THREAD\_HANDLE\_X\_CALINFO\_ENUMPROCW\_R  
      PC\_AUTH\_IDENTITY\_HANDLE\_6\_  
      ENHMETARECORD&  
30    \_SECURITY\_CONTEXT\_TRACKING\_MODE\_X\_DATEFMT\_ENUMPROCW\_t  
      PSID\_NAME\_USE\_MIDICALLBACK@20"!\_SECURITY\_DESCRIPTOR\_CONTROL  
      \_\_\_\_\_  
      EXPR\_EVAL\_ž\_LPFRHOOKPROC\_X\_CALINFO\_ENUMPROCA\_i\_PFN  
      ALLBACK\_X\_DATEFMT\_ENUMPROCA\_¤\_ICMENUMPROCW\_©\_  
35    PQUERYHANDLER  
      @\_FLOAT\_"\_LPDWORD\_RPC\_AUTHZ\_HANDLE\_u\_MMVERSION  
      \_HRSRC\_RPC\_FORWARD\_FUNCTION@20"®\_PTOP\_LEVEL\_EXCEPTION\_FILTER  
      \_HCONV  
40    \_BYTE\_LONGLONG\_a\_LPPROPSHEETPAGEW\_±\_ICMENUMPROCA!\_LP  
      WSTR\_"\_ACCESS\_MASK\_"\_COLORREF\_Z\_LPPROPSHEETPAGEA'\_PIMAG  
      E\_TLS\_CALLBACK\_HWAVEOUT\_\$\_PRPC\_RUNDOWN\_HENHMETAFILE  
      \_t\_PBOOL\_‡\_RPC\_SYNTAX\_IDENTIFIER\_X\_DESKTOPENUMPROCW\_"\_u\_lo  
45    ng  
      \_t\_SPTR!\_LPOLESTR\_NDR\_CCONTEXT



```

_u UINT_X WNDENUMPROC_X_DESKTOPENUMPROCA_¶_WNDPROC_"_
HREFTYPE_# DWORDLONG
_p_LPSTR_t
TOKEN_TYPE
5 _!_BSTR_____
RPC_NS_HANDLE
_HDESK_"_PDWORD_°_EXCEPTION_POINTERS_!
CLIPFORMAT_!_LPWORD_t_TYPEKIND_X_CODEPAGE_ENUMPROCW
_p_HPSTR_d_LPFNPSPCALLBACKW_!_OLECHAR_X_ENUMRESLANGPROC
10 _t_VARKIND_X_CODEPAGE_ENUMPROCA_]_LPFNPSPCALLBACKA_____
RPC_BUFPTR_X_WINSTAENUMPROCW_½_RPC_AUTH_KEY_RETRIEVAL_FN
_!_LPCOLESTR_____SC_HANDLE
_HTASK_À_REGISTERWORDENUMPROCW_X_TIMEFMT_ENUMPROCW_
X_WINSTAENUMPROCA
15 _!_ATOM_!_LPCWSTR_X_DLGPROC_Ã_REGISTERWORDENUMPROCA_____
_HOLEMENU
_t_BOOL_RPC_OBJECT_INQ_FN@12
_"_ULONG_X_TIMEFMT_ENUMPROCA_«_PEXCEPTION_POINTERS_Æ_tag
HELPINFO_t_CALLCONV_____LPMENUTEMPLATEA_____HGLOBAL_____LPVOI
20 D_____
RPC_IF_HANDLE_X_HOOKPROC
_p_PSTR_ž_LPCFHOOKPROC_!_USHORT_7_
LPHMIDIOUT_____HRESULT_____
_PUCHAR_____DISPID_È_PFULL_PTR_XLAT_TABLES_ž_LPCCHOOKPROC_
25 _LPBYTE_____
_X_PROC_____
_A_DATE_Ð_____
ENHMFENUMPROC
_PSID_____
30 _t_LPINT_____
_N_SNB_____
_p_CHAR_p_LPCSTR_Ó_SERVER_ROUTINE
_____SCODE&_Ø_LPOVERLAPPED_COMPLETION_ROUTINE_Û_____
_YIELDPROC_!_VARTYPE_____HWAVEIN_ß_IRpcChannelBuffer_ß_IRpc
35 ChannelBuffer_ž_LPPAGEPAINTHOOK_t_____
_OLERENDER_u_LPUINT_X_GOBJENUMPROC_____
HMETAFILEPICT_Ñ_LPBSTR_____
_byte_@_PFLOAT_"_PSECURITY_INFORMATION_$_NDR_RUNDOWN_____
40 LPCVOID_"_SERVICE_STATUS_HANDLE_ž_LPPAGESETUPHOOK
_u_u_int_!_wint_t_â_____
LPMMIOPROC_____
STUB_THUNK_____
_!_WCHAR_____HGDIOBJ_X_ENUMRESNAMEPROC_____HCONVLIST
45 _____HSZ_____
_t_INT_HDDEDATA_â_tagHANDLETABLE_X_FARPROC_X_____

```

PROPENUMPROCW\_\_ " MCIERROR\_\_t\_\_LPBOOL  
\_\_PLONG\_\_u\_\_WPARAM  
\_\_HMMIO\_\_ž\_\_  
LPOFNHOOKPROC\_\_ç\_\_HPROPSHEETPAGE\_\_QUERYHANDLER\_\_X\_\_  
5 PROPENUMPROCA  
\_\_HKL\_\_HACCEL\_\_"  
RPCOLEDATAREP\_\_VARIANT\_\_BOOL\_\_HCURSOR\_\_7\_\_PHANDLE\_\_é\_\_  
\_\_onexit\_\_t\_\_X\_\_  
FONENUMPROCW\_\_ " \_LCTYPE\_\_î\_\_RPC\_DISPATCH\_FUNCTION  
10 " \_CALID\_\_  
RPC\_STATUS\_\_HMIDIIN  
\_\_HDC\_\_ó\_\_MSGBOXCALLBACK\_\_X\_\_  
FONENUMPROCA\_\_GENERIC\_UNBIND\_ROUTINE\_\_HBITMAP\_\_LPARA  
M\_\_  
15 MENUTEMPLATEW\_\_7\_\_LPHMIDISTRM\_\_t\_\_TOKEN\_INFORMATION\_CLASS\_\_D  
RVCALLBACK@20\_\_÷\_\_RPC\_MESSAGE\_\_  
MENUTEMPLATEA  
\_\_HMIDI\_\_ú\_\_PFNPROPSHEETCALLBACK\_\_PSECURITY\_DESCRIPTOR  
\_\_HMENU\_\_HWINSTA\_\_  
20 LCSGAMUTMATCH\_\_RPC\_CLIENT\_FREE@4\_\_ý\_\_PMIDL\_STUB\_DESC  
\_\_LONG\_\_NDR\_SCONTEXT\_\_  
ARRAY\_INFO\_\_p\_\_va\_list\_\_7\_\_LPHMIXER\_\_X\_\_TIMERPROC\_\_X\_\_  
DRAWSTATEPROC\_\_HINSTANCE\_\_ " \_FOURCC\_\_  
\_\_MIDL\_STUB\_MESSAGE\_\_ " \_SECURITY\_INFORMATION\_\_X\_\_ENUMRESTYPEP  
25 ROC\_\_â\_\_HANDLETABLE\_\_7\_\_LPHWAVEIN\_\_  
\_\_PFORMAT\_STRING\_\_ " \_CALTYPE\_\_7\_\_LPHANDLE\_\_RPC\_MGMT\_AUTHORI  
ZATION\_FN\_\_!\_\_LANGID\_\_t\_\_SECURITY\_IMPERSONATION\_LEVEL\_\_fpos\_\_t\_\_u\_\_S  
OCKET\_\_BOOLEAN\_\_7\_\_RPC\_EP\_INQ\_HANDLE\_\_  
\_\_HWND\_\_MMIOPROC@16\_\_LPHANDLER\_FUNCTION\_\_t\_\_EXCEPTION\_DIS  
30 POSITION\_\_t\_\_XLAT\_SIDE\_\_  
\_\_HHOOK\_\_LPTHREAD\_START\_ROUTINE\_\_7\_\_  
LPHWAVEOUT\_\_HPALETTE\_\_X\_\_PROPENUMPROCEXW\_\_HMODULE\_\_W  
AVECALLBACK@20\_\_RPC\_CLIENT\_ALLOC@4\_\_HANDLE\_\_HMIXER\_\_  
\_\_!\_\_PWORD\_\_X\_\_PROPENUMPROCEXA\_\_HCOLORSPACE\_\_X\_\_EDITWORDBR  
35 EAKPROCA\_\_GENERIC\_BINDING\_ROUTINE\_\_!\_\_u\_\_short\_\_7\_\_  
LPHMIDIIN\_\_X\_\_LOCALE\_ENUMPROCW\_\_  
\_\_ " \_DWORD\_\_X\_\_GRAYSTRINGPROC\_\_t\_\_DESKIND\_\_  
\_\_7\_\_PHKEY\_\_ " ®\_\_LPTOP\_LEVEL\_EXCEPTION\_FILTER\_\_  
\_\_ " \_LCID\_\_LPFNADDPROPSHEETPAGE\_\_u\_\_char\_\_X\_\_LOCALE\_ENUMPROCA\_\_  
40 \_\_HRGN\_\_t\_\_ACL\_INFORMATION\_CLASS\_\_t\_\_SYSKIND\_\_TIMECALLBACK@20\_\_  
\_\_PACCESS\_TOKEN\_\_SC\_LOCK\_\_X\_\_LINEDDAPROC\_\_PHANDLER\_ROUTIN  
E\_\_!\_\_PSECURITY\_DESCRIPTOR\_CONTROL\_\_t\_\_FUNCKIND\_\_  
FXPT2DOT30\_\_LPLONG\_\_  
45 \_\_HGLRC\_\_HMIDIOUT\_\_t\_\_  
INVOKEKIND\_\_HMIDISTRM\_\_

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__HFONT
__HPEN
__HICON
__PVOID
5 tagMETARECORD__"REGSAM__t    OLEUPDATE__u_MCIDEVICEID__
  LPSERVICE_MAIN_FUNCTIONW
  !_WORD__HMETAFILE__X__ABORTPROC
  __HDRV__$_LPSERVICE_MAIN_FUNCTIONA__ž__LPPRINTHOOKPROC__u_si
ze_t__LCSCSTYPE
10 __PBYTE__LRESULT__)
MFENUMPROC
  é__FPTR
  __HKEY
  __UCHAR__PTHREAD_START_ROUTINE__!_wctype_t__I_RPC_HANDLE
15 __HDROP__MEMBERID
  __SHORT__!_wchar_t__u_MMRESULT__XMIT_HELPER_ROUTINE__RPC_BI
NDING_HANDLE
  "__HIMC__I_RPC_MUTEX
    HMIXEROBJ__ž__LPSETUPHOOKPROC__,_RPC_BLOCKING_FUNCTION__
20 __HBRUSH__X__
SENDASYNCPROC__!FILEOP_FLAGS__/_LPTIMECALLBACK__handle_t__H
LOCAL
_t_HFILE__`Æ__<`    Æ__J:\Vb60\Line21\Tests.c_u`    f    p    u    {
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—!\$%&'(),-  
25    ./0156789:=@ACDFGJMNQSTWZ[[]^`adghjkmnqtuvwxyz{~□,,,...‡^¿□□‘‘‘‘‘~>œžŸj¢¥”©  
«-®-²¶;¹¼½¾¿ÀÃÄ—\_Debug/XDSMessages.objF\_<Microsoft (R) 32-bit C/C++  
Optimizing Compiler Version 10.00\*\_¼é\_äP\_K\_Def\_p\_mes\_1\_  
\_cStatePtr\_\*\_P\_"\_9\_K\_Vcp\_p\_mes\_1\_  
\_cStatePtr\_øÿÿÿp\_b2\_ôÿÿÿp\_b1\_øÿÿÿp\_type\_üÿÿÿp\_flags\_\*\_°\_ú  
30    ô[\_K\_Typ\_p\_mes\_1\_ cStatePtr  
\_üÿÿÿt\_i\_XDSMes\_: 4\_mpaaratings\_8: 4\_tvpgratings\_X: L\_flag  
mask`\_: 4\_types\_XMIT\_ROUTINE\_QUINTUPLE\_GENERIC\_BINDING  
\_INFO\_tagRPCOLEMESSAGE\_&\_MALLOC\_FREE\_STRUCT"(\_GENERIC\_  
\_BINDING\_ROUTINE\_PAIR\_&\_MALLOC\_FREE\_STRUCT\*\_COMM\_FAULT\_O  
35    FFSETS".\_FULL\_PTR\_TO\_REFID\_ELEMENT"(\_GENERIC\_BINDING\_ROUTINE  
\_PAIR\_XMIT\_ROUTINE\_QUINTUPLE",\_PFULL\_PTR\_TO\_REFID\_ELEMENT  
\_1\_GUID\_3\_LPCLSID\_6\_tagENHMETARECORD  
\_1\_GUID\_L\_MIDL\_STUB\_DESC\_S\_FULL\_PTR\_XLAT\_TABLES\_PROP  
SHEETPAGEA\_f\_PROPSHEETPAGEW  
40    \_1\_CLSID\_7\_XDSState\_,\_IRpcChannelBufferVtbl\_,\_DLGTEMPLATE\_‡\_RP  
C\_SYNTAX\_IDENTIFIER\_œ\_EXCEPTION\_RECORD\_Ž\_OVERLAPPED\_‘\_  
FLOATING\_SAVE\_AREA  
\_1\_IID\_,\_DLGTEMPLATE\_PROPSHEETPAGEA\_’\_LPDLGTEMPLATEA\_f  
PROPSHEETPAGEW  
45    \_9\_sval\_”\_tagPOINT\_—\_CONTEXT\_™\_RPC\_VERSION  
\_”\_POINT\_—\_CONTEXT

3\_LPIID\_%%\_PEXCEPTION\_RECORD  
9\_SVAL\_>\_val\_context  
HDWP\_H\_cState  
u\_PUINT RPC\_SS\_THREAD\_HANDLE\_X\_CALINFO\_ENUMPROCW\_\_R  
5\_PC\_AUTH\_IDENTITY\_HANDLE\_6\_  
ENHMETARECORD&  
SECURITY\_CONTEXT\_TRACKING\_MODE\_X\_DATEFMT\_ENUMPROCW\_t  
PSID\_NAME\_USE\_MIDICALLBACK@20"!\_SECURITY\_DESCRIPTOR\_CONTROL  
  
10\_EXPR\_EVAL\_ž\_LPFRHOOKPROC\_X\_CALINFO\_ENUMPROCA\_i\_PFN  
ALLBACK\_X\_DATEFMT\_ENUMPROCA\_ı\_ICMENUMPROCW\_©\_  
PQUERYHANDLER  
@\_FLOAT\_"\_LPDWORD RPC\_AUTHZ\_HANDLE\_u\_MMVERSION  
HRSRC RPC\_FORWARD\_FUNCTION@20"®\_PTOP\_LEVEL\_EXCEPTION\_F  
15\_ILTER  
HCONV  
  
\_BYTE\_LONGLONG\_a\_LPPROPSHEETPAGEW\_±\_ICMENUMPROCA !\_LP  
WSTR\_"\_ACCESS\_MASK\_"\_COLORREF\_Z\_LPPROPSHEETPAGEA'\_PIMAG  
20\_E\_TLS\_CALLBACK\_HWAVEOUT\_\$\_PRPC\_RUNDOWN\_HENHMETAFILE  
\_t\_PBOOL\_‡\_RPC\_SYNTAX\_IDENTIFIER\_X\_DESKTOPENUMPROCW\_"\_u\_lo  
ng  
\_t\_SPTR !\_LPOLESTR\_NDR\_CCONTEXT  
\_u\_UINT\_X\_WNDENUMPROC\_X\_DESKTOPENUMPROCA\_¶\_WNDPROC\_"\_  
25\_HREFTYPE\_#\_DWORDLONG  
\_p\_LPSTR\_t  
TOKEN\_TYPE  
!\_BSTR\_  
RPC\_NS\_HANDLE  
30\_HDESK\_"\_PDWORD\_°\_EXCEPTION\_POINTERS!  
CLIPFORMAT !\_LPWORD\_t\_TYPEKIND\_X\_CODEPAGE\_ENUMPROCW  
\_p\_HPSTR\_d\_LPFNPSPCALLBACKW !\_OLECHAR\_X\_ENUMRESLANGPROC  
\_t\_VARKIND\_X\_CODEPAGE\_ENUMPROCA\_]\_LPFNPSPCALLBACKA\_  
RPC\_BUFPTR\_X\_WINSTAENUMPROCW\_½\_RPC\_AUTH\_KEY\_RETRIEVAL\_FN  
35\_!\_LPCOLESTR SC\_HANDLE  
HTASK\_À\_REGISTERWORDENUMPROCW\_X\_TIMEFMT\_ENUMPROCW\_  
X\_WINSTAENUMPROCA  
!\_ATOM !\_LPCWSTR\_X\_DLGPTR\_À\_REGISTERWORDENUMPROCA\_  
HOLEMENU  
40\_t\_BOOL RPC\_OBJECT\_INQ\_FN@12  
"\_ULONG\_X\_TIMEFMT\_ENUMPROCA\_«\_PEXCEPTION\_POINTERS\_Æ\_tag  
HELPINFO\_t\_CALLCONV\_LPMENUTEMPLATEA\_HGLOBAL LPVOI  
D\_  
RPC\_IF\_HANDLE\_X\_HOOKPROC  
45\_p\_PSTR\_ž\_LPCFHOOKPROC !\_USHORT\_7\_

LPHMIDIOUT\_\_HRESULT\_\_  
\_\_PUCHAR\_\_DISPID\_\_È\_\_PFULL\_PTR\_XLAT\_TABLES\_\_ž\_\_LPCCHOOKPROC\_\_  
\_\_LPBYTE\_\_  
\_\_X\_\_PROC  
5 \_\_A\_DATE\_\_Đ\_\_  
ENHMFENUMPROC  
\_\_PSID\_\_  
\_\_t\_\_LPINT  
\_\_Ñ\_\_SNB  
10 \_\_p\_\_CHAR\_\_p\_\_LPCSTR\_\_Ó\_\_SERVER\_ROUTINE\_\_  
\_\_SCODE&\_\_Ø\_\_LPOVERLAPPED\_COMPLETION\_ROUTINE\_\_Û\_\_  
YIELDPROC\_\_!\_\_VARTYPE\_\_HWAVERIN\_\_ß\_\_IRpcChannelBuffer\_\_ß\_\_IRpc  
ChannelBuffer\_\_ž\_\_LPPAGEPAINTHOOK\_\_t\_\_  
OLERENDER\_\_u\_\_LPUINT\_\_X\_\_GOBJENUMPROC\_\_  
15 HMETAFILEPICT\_\_Ñ\_\_LPBSTR\_\_  
\_\_byte\_\_@\_\_PFLOAT\_\_"\_\_PSECURITY\_INFORMATION\_\_\$\_\_NDR\_RUNDOWN\_\_  
LPCVOID\_\_"\_\_SERVICE\_STATUS\_HANDLE\_\_ž\_\_LPPAGESETUPHOOK\_\_  
\_\_u\_\_u\_\_int\_\_!\_\_wint\_\_t\_\_â\_\_  
20 LPMMIOPROC\_\_  
STUB\_THUNK\_\_  
\_\_!\_\_WCHAR\_\_HGDIOBJ\_\_X\_\_ENUMRESNAMEPROC\_\_HCONVLIST\_\_  
\_\_HSZ\_\_  
\_\_t\_\_INT\_\_HDDATA\_\_â\_\_tagHANDLETABLE\_\_X\_\_FARPROC\_\_X\_\_  
25 PROPENUMPROCW\_\_"\_\_MCIERROR\_\_t\_\_LPBOOL\_\_  
\_\_PLONG\_\_u\_\_WPARAM\_\_  
\_\_HMMIO\_\_ž\_\_  
LPOFNHOOKPROC\_\_ç\_\_HPROPSHEETPAGE\_\_QUERYHANDLER\_\_X\_\_  
PROPENUMPROCA\_\_  
30 \_\_HKL\_\_HACCEL\_\_"  
RPCOLEDATAREP\_\_VARIANT\_BOOL\_\_HCURSOR\_\_7\_\_PHANDLE\_\_é\_\_  
\_\_onexit\_\_t\_\_X\_\_  
FONTENUMPROCW\_\_"\_\_LCTYPE\_\_î\_\_RPC\_DISPATCH\_FUNCTION\_\_  
\_\_"\_\_CALID\_\_  
35 RPC\_STATUS\_\_HMIDIIN\_\_  
\_\_HDC\_\_ó\_\_MSGBOXCALLBACK\_\_X\_\_  
FONTENUMPROCA\_\_GENERIC\_UNBIND\_ROUTINE\_\_HBITMAP\_\_LPARAM\_\_  
MENUTEMPLATEW\_\_7\_\_LPHMIDISTRM\_\_t\_\_TOKEN\_INFORMATION\_CLASS\_\_D\_\_  
40 RVCALLBACK@20\_\_÷\_\_RPC\_MESSAGE\_\_  
MENUTEMPLATEA\_\_  
\_\_HMIDI\_\_ú\_\_PFNPROPSHEETCALLBACK\_\_PSECURITY\_DESCRIPTOR\_\_  
\_\_HMENU\_\_HWINSTA\_\_  
LCSGAMUTMATCH\_\_RPC\_CLIENT\_FREE@4\_\_ý\_\_PMIDL\_STUB\_DESC\_\_  
45 \_\_LONG\_\_NDR\_SCONTEXT\_\_  
ARRAY\_INFO\_\_p\_\_va\_list\_\_7\_\_LPHMIXER\_\_X\_\_TIMERPROC\_\_X\_\_

DRAWSTATEPROC\_\_\_\_\_ HINSTANCE\_ " FOURCC\_  
\_\_\_\_MIDL\_STUB\_MESSAGE\_ " SECURITY\_INFORMATION\_X\_ENUMRESTYPEP  
ROC\_â\_HANDLETABLE\_7\_ LPHWAVEIN\_  
\_\_\_\_PFORMAT\_STRING\_ " CALTYPE\_7\_LPHANDLE\_\_\_\_\_RPC\_MGMT\_AUTHORI  
5 ZATION\_FN\_! LANGID" t SECURITY\_IMPERSONATION\_LEVEL\_\_\_\_\_fpos\_t\_u\_S  
OCKET\_\_\_\_\_BOOLEAN\_7\_RPC\_EP\_INQ\_HANDLE  
\_\_\_\_HWND\_\_\_\_\_MMIOPROC@16\_\_\_\_\_LPHANDLER\_FUNCTION\_t\_EXCEPTION\_DIS  
POSITION\_t\_XLAT\_SIDE  
\_\_\_\_HHOOK\_\_\_\_\_LPTHREAD\_START\_ROUTINE\_7\_  
10 LPHWAVEOUT\_\_\_\_\_HPALETTE\_X\_PROPENUMPROCEXW\_\_\_\_\_HMODULE\_\_\_\_\_W  
AVECALLBACK@20\_\_\_\_\_RPC\_CLIENT\_ALLOC@4\_\_\_\_\_HANDLE\_\_\_\_\_HMIXER  
\_\_\_\_!\_PWORD\_X\_PROPENUMPROCEXA\_\_\_\_\_HCOLORSPACE\_X\_EDITWORDBR  
EAKPROCA\_\_\_\_\_GENERIC\_BINDING\_ROUTINE\_!\_u\_short\_7\_  
LPHMIDIIN\_X\_LOCALE\_ENUMPROCW  
15 " DWORD\_X\_GRAYSTRINGPROC\_t\_DESKIND  
\_\_\_\_7\_PHKEY"®\_LPTOP\_LEVEL\_EXCEPTION\_FILTER  
\_\_\_\_" LCID\_\_\_\_\_LPFNADDPROPSHEETPAGE\_\_\_\_\_u\_char\_X\_LOCALE\_ENUMPROCA  
\_\_\_\_HRGN\_t\_ACL\_INFORMATION\_CLASS\_t\_SYSKIND\_\_\_\_\_TIMECALLBACK@20\_  
\_\_\_\_\_  
20 PACCESS\_TOKEN\_\_\_\_\_SC\_LOCK\_X\_LINEDDAPROC\_\_\_\_\_PHANDLER\_ROUTIN  
E"!\_PSECURITY\_DESCRIPTOR\_CONTROL\_t\_FUNCKIND\_\_\_\_\_  
FXPT2DOT30\_\_\_\_\_LPLONG  
\_\_\_\_HGLRC\_\_\_\_\_HMIDIOUT\_t  
INVOKEKIND\_\_\_\_\_HMIDISTRM  
25 \_\_\_\_\_HFONT  
\_\_\_\_HPEN  
\_\_\_\_HICON  
\_\_\_\_PVOID\_\_\_\_\_  
tagMETARECORD\_ " REGSAM\_t OLEUPDATE\_u\_MCIDEVICEID\_  
30 \_\_\_\_\_LPSERVICE\_MAIN\_FUNCTIONW  
\_\_\_\_!\_WORD\_\_\_\_\_HMETAFILE\_X\_ABORTPROC  
\_\_\_\_HDRV\_R\_\$ \_LPSERVICE\_MAIN\_FUNCTIONA\_ž \_LPPRINTHOOKPROC\_u\_si  
ze\_t\_\_\_\_\_LCSCSTYPE  
\_\_\_\_PBYTE\_\_\_\_\_LRESULT\_)\_\_\_\_\_  
35 MFENUMPROC  
\_\_\_\_é\_FPTR  
\_\_\_\_HKEY  
\_\_\_\_UCHAR\_\_\_\_\_PTHREAD\_START\_ROUTINE\_!\_wctype\_t\_\_\_\_\_I\_RPC\_HANDLE  
\_\_\_\_HDROP\_\_\_\_\_MEMBERID  
40 \_\_\_\_\_SHORT\_!\_wchar\_t\_u\_MMRESULT\_\_\_\_\_XMIT\_HELPER\_ROUTINE\_\_\_\_\_RPC\_BI  
NDING\_HANDLE  
\_\_\_\_" HIMC\_\_\_\_\_I\_RPC\_Mutex\_\_\_\_\_  
\_\_\_\_HMIXEROBJ\_ž \_LPSETUPHOOKPROC\_\_\_\_,\_\_\_\_RPC\_BLOCKING\_FUNCTION\_\_\_\_\_  
\_\_\_\_HBRUSH\_X\_\_\_\_\_  
45 SENDASYNCPROC\_!FILEOP\_FLAGS\_/ \_LPTIMECALLBACK\_\_\_\_\_handle\_t\_\_\_\_\_H  
LOCAL

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t_HFILE_P_T_DP_T_J:\Vb60\Line21\XDSMessages.c_P_V_g_
"ÿ49B_S_f°Ýé_@_Q1x^~_»ÌØéð_#/ @_E_V[_d_u_¥_¶_
ø:_K_P_#"#%'()*+,-./01234568:<?BCDEFGHIJ_
Debug\L21Dec.objF_<Microsoft (R) 32-bit C/C++ Optimizing Compiler Version
5 10.00._ä_□_M_DllMain_hInst_"_ul_reason_being_called_
lpReserved_2_d_§_O_Line21Decode_field_ch_p_mes
_øÿÿÿt_j
_üÿÿÿt_i_2_à_Ê_Å_Á_P_stateMachine_field_
_ch_p_mes_üÿÿÿE_cstate_.4_<_R_
10 ShiftRight_"_value_shift_.^_¥_R_ShiftLeft_"_value_shift_.0
_S_DataState_°□_H_CCstate_\_l_1_
_cStatePtr_XMIT_ROUTINE_QUINTUPLE_GENERIC_BINDING_IN
FO_tagRPCOLEMESSAGE_&_MALLOC_FREE_STRUCT"(_GENERIC_BIN
DING_ROUTINE_PAIR_&_MALLOC_FREE_STRUCT*_COMM_FAULT_OFFS
15 ETS"_.FULL_PTR_TO_REFID_ELEMENT"(_GENERIC_BINDING_ROUTINE_P
AIR_XMIT_ROUTINE_QUINTUPLE",_PFULL_PTR_TO_REFID_ELEMENT
_1_GUID_3_LPCLSID_6_tagENHMETARECORD
_1_GUID_L_MIDL_STUB_DESC_S_FULL_PTR_XLAT_TABLES_PROP
SHEETPAGEA_f_PROPSHEETPAGEW
20 _1_CLSID_7_XDSState_,_IRpcChannelBufferVtbl_,_DLGTEMPLATE_‡_RP
C_SYNTAX_IDENTIFIER_œ_EXCEPTION_RECORD_Ž_OVERLAPPED_‘_
FLOATING_SAVE_AREA
_1_IID_,_DLGTEMPLATE_PROPSHEETPAGEA_,_LPDLGTEMPLATEA_f_
_PROPSHEETPAGEW_"_tagPOINT_—_CONTEXT_™_RPC_VERSION
25 " _POINT_—_CONTEXT
_3_LPIID_%_PEXCEPTION_RECORD_>_val_context
_HDWP_H_cState
_u_PUINT_RPC_SS_THREAD_HANDLE_X_CALINFO_ENUMPROCW_R
PC_AUTH_IDENTITY_HANDLE_6_
30 ENHMETARECORD&_
_SECURITY_CONTEXT_TRACKING_MODE_X_DATEFMT_ENUMPROCW_t_
PSID_NAME_USE_MIDICALLBACK@20"!_SECURITY_DESCRIPTOR_CONTROL
_
EXPR_EVAL_ž_LPFHOOKPROC_X_CALINFO_ENUMPROCA_i_PFUNC
35 ALLBACK_X_DATEFMT_ENUMPROCA_□_ICMENUMPROCW_©_
PQUERYHANDLER
@_FLOAT_"_LPDWORD_RPC_AUTHZ_HANDLE_u_MMVERSION
_HRSRC_RPC_FORWARD_FUNCTION@20"_®_PTOP_LEVEL_EXCEPTION_F
ILTER
40 _HCONV
_
_BYTE_LONGLONG_a_LPPROPSHEETPAGEW_±_ICMENUMPROCA_!_LP
WSTR_"_ACCESS_MASK_"_COLORREF_Z_LPPROPSHEETPAGEA_'_PIMAG
E_TLS_CALLBACK_HWAVEOUT_$_PRPC_RUNDOWN_HENHMETAFILE
45 _t_PBOOL_‡_RPC_SYNTAX_IDENTIFIER_X_DESKTOPENUMPROCW_"_u_lo
ng

```



t \_SPTR\_ !\_LPOLESTR\_ \_NDR\_CONTEXT  
\_u\_UINT\_ \_X\_ \_WNDENUMPROC\_ \_X\_ \_DESKTOPENUMPROCA\_ \_!\_ \_WNDPROC\_ \_"  
HREFTYPE\_ # \_DWORDLONG  
\_p\_LPSTR\_ \_t  
5 TOKEN\_TYPE  
\_!\_ \_BSTR\_ \_  
RPC\_NS\_HANDLE  
\_ \_HDESK\_ \_" \_PDWORD\_ \_°\_ \_EXCEPTION\_POINTERS\_ \_!  
CLIPFORMAT\_ !\_LPWORD\_ \_t\_ TYPEKIND\_ \_X\_ \_CODEPAGE\_ENUMPROCW  
10 \_p\_HPSTR\_ \_d\_ \_LPFNPSPCALLBACKW\_ !\_OLECHAR\_ \_X\_ \_ENUMRESLANGPROC  
\_t\_ VARKIND\_ \_X\_ \_CODEPAGE\_ENUMPROCA\_ \_]\_ \_LPFNPSPCALLBACKA\_ \_  
RPC\_BUFPTR\_ \_X\_ \_WINSTAENUMPROCW\_ \_½\_ \_RPC\_AUTH\_KEY\_RETRIEVAL\_FN  
\_!\_ \_LPCOLESTR\_ \_ \_SC\_HANDLE  
\_ \_HTASK\_ \_À\_ \_REGISTERWORDENUMPROCW\_ \_X\_ \_TIMEFMT\_ENUMPROCW\_ \_  
15 X\_ \_WINSTAENUMPROCA  
\_!\_ \_ATOM\_ !\_LPCWSTR\_ \_X\_ \_DLGPROC\_ \_Ã\_ \_REGISTERWORDENUMPROCA\_ \_  
\_HOLEMENU  
\_t\_ \_BOOL\_ \_RPC\_OBJECT\_INQ\_FN@12  
\_ " \_ULONG\_ \_X\_ \_TIMEFMT\_ENUMPROCA\_ \_«\_ \_PEXCEPTION\_POINTERS\_ \_Æ\_ \_tag  
20 HELPINFO\_ \_t\_ \_CALLCONV\_ \_ \_LPMENUTEMPLATEA\_ \_ \_HGLOBAL\_ \_ \_LPVOID  
\_D\_ \_  
RPC\_IF\_HANDLE\_ \_X\_ \_HOOKPROC  
\_p\_ \_PSTR\_ \_ž\_ \_LPCFHOOKPROC\_ !\_USHORT\_ \_7\_  
LPHMIDIOUT\_ \_HRESULT\_ \_  
25 \_PUCHAR\_ \_ \_DISPID\_ \_È\_ \_PFULL\_PTR\_XLAT\_TABLES\_ \_ž\_ \_LPCCHOOKPROC\_ \_  
\_LPBYTE  
\_X\_ \_PROC  
\_A\_ \_DATE\_ \_Ð\_ \_  
ENHMFENUMPROC  
30 \_PSID  
\_t\_ \_LPINT  
\_Ñ\_ \_SNB  
\_p\_ \_CHAR\_ \_p\_ \_LPCSTR\_ \_Ó\_ \_SERVER\_ROUTINE  
\_ \_SCODE&\_ \_Ø\_ \_LPOVERLAPPED\_COMPLETION\_ROUTINE\_ \_Û\_ \_  
35 YIELDPROC\_ !\_VARTYPE\_ \_ \_HWAVEIN\_ \_ß\_ \_IRpcChannelBuffer\_ \_ß\_ \_IRpc  
ChannelBuffer\_ \_ž\_ \_LPPAGEPAINTHOOK\_ \_t  
\_OLERENDER\_ \_u\_ \_LPUINT\_ \_X\_ \_GOBJENUMPROC\_ \_  
HMETAFILEPICT\_ \_Ñ\_ \_LPBSTR  
40 \_byte\_ \_@\_ \_PFLOAT\_ \_" \_PSECURITY\_INFORMATION\_ \_\$ \_NDR\_RUNDOWN\_ \_  
LPCVOID\_ \_" \_SERVICE\_STATUS\_HANDLE\_ \_ž\_ \_LPPAGESETUPHOOK  
\_u\_ \_u\_int\_ !\_wint\_ \_t\_ \_â\_ \_  
LPMMIOPROC\_ \_  
STUB\_THUNK  
45 \_9\_ \_sval  
\_!\_ \_WCHAR\_ \_ \_HGDIOBJ\_ \_X\_ \_ENUMRESNAMEPROC\_ \_ \_HCONVLIST

\_\_\_\_HSZ  
\_\_\_\_t\_INT\_\_\_\_HDDADATA\_&\_tagHANDLETABLE\_X\_FARPROC\_X\_  
PROPENUMPROCW\_"\_MCIERROR\_t\_LPBOOL  
\_\_\_\_PLONG\_u\_WPARAM  
5 \_\_\_\_HMMIO\_ž\_  
LPOFNHOOKPROC\_ç\_HPROPSHEETPAGE\_QUERYHANDLER\_X\_  
PROPENUMPROCA  
\_\_\_\_HKL\_\_\_\_HACCEL\_"  
RPCOLEDATAREP\_VARIANT\_BOOL\_\_\_\_HCURSOR\_7\_PHANDLE\_é\_  
10 \_\_\_\_onexit\_t\_X\_  
FONTENUMPROCW\_"\_LCTYPE\_î\_RPC\_DISPATCH\_FUNCTION  
\_\_\_\_"\_CALID\_\_\_\_  
RPC\_STATUS\_\_\_\_HMIDIIN  
\_\_\_\_HDC\_ó\_MSGBOXCALLBACK\_X\_  
15 FONTENUMPROCA\_\_\_\_GENERIC\_UNBIND\_ROUTINE\_\_\_\_HBITMAP\_\_\_\_LPARA  
M\_\_\_\_  
MENUTEMPLATEW\_7\_LPHMIDISTRM\_t\_TOKEN\_INFORMATION\_CLASS\_\_D  
RVCALLBACK@20\_÷\_RPC\_MESSAGE\_\_\_\_  
MENUTEMPLATEA  
20 \_\_\_\_HMIDI\_ú\_PFNPROPSHEETCALLBACK\_\_\_\_PSECURITY\_DESCRIPTOR  
\_\_\_\_HMENU\_\_\_\_HWINSTA\_\_\_\_  
LCSGAMUTMATCH\_RPC\_CLIENT\_FREE@4\_ý\_PMIDL\_STUB\_DESC  
\_\_\_\_LONG\_\_\_\_NDR\_SCONTEXT\_\_\_\_  
ARRAY\_INFO\_p\_va\_list\_7\_LPHMIXER\_X\_\_\_\_TIMERPROC\_X\_  
25 DRAWSTATEPROC\_\_\_\_HINSTANCE\_"\_FOURCC\_\_\_\_  
\_\_\_\_MIDL\_STUB\_MESSAGE\_"\_SECURITY\_INFORMATION\_X\_ENUMRESTYPEP  
ROC\_&\_HANDLETABLE\_7\_LPHWAVEIN\_\_\_\_  
\_\_\_\_PFORMAT\_STRING\_"\_CALTYPE\_7\_LPHANDLE\_\_\_\_RPC\_MGMT\_AUTHORI  
ZATION\_FN\_!\_LANGID" t SECURITY\_IMPERSONATION\_LEVEL\_\_\_\_fpos\_t\_u\_S  
30 OCKET\_\_\_\_BOOLEAN\_7\_RPC\_EP\_INQ\_HANDLE  
\_\_\_\_HWND\_\_\_\_MMIOPROC@16\_\_\_\_LPHANDLER\_FUNCTION\_t\_EXCEPTION\_DIS  
POSITION\_t\_XLAT\_SIDE\_\_\_\_  
\_\_\_\_HHOOK\_\_\_\_LPTHREAD\_START\_ROUTINE\_7\_  
LPHWAVEOUT\_\_\_\_HPALETTE\_X\_PROPENUMPROCEXW\_\_\_\_HMODULE\_\_W  
35 AVECALLBACK@20\_RPC\_CLIENT\_ALLOC@4\_\_\_\_HANDLE\_\_\_\_HMIXER  
\_\_\_\_!\_PWORD\_X\_PROPENUMPROCEXA\_\_\_\_HCOLORSPACE\_X\_EDITWORDBR  
EAKPROCA\_\_\_\_GENERIC\_BINDING\_ROUTINE\_!\_u\_short\_7\_  
LPHMIDIIN\_X\_LOCALE\_ENUMPROCW  
\_\_\_\_"\_DWORD\_X\_GRAYSTRINGPROC\_t\_DESKIND\_\_\_\_  
40 \_\_\_\_7\_PHKEY"@\_LPTOP\_LEVEL\_EXCEPTION\_FILTER\_\_\_\_  
\_\_\_\_"LCID\_\_\_\_LPFNADDPROPSHEETPAGE\_u\_char\_X\_LOCALE\_ENUMPROCA  
\_\_\_\_HRGN\_t\_ACL\_INFORMATION\_CLASS\_t\_SYSKIND\_\_\_\_TIMECALLBACK@20\_\_\_\_  
\_\_\_\_PACCESS\_TOKEN\_\_\_\_SC\_LOCK\_X\_LINEDDAPROC\_\_\_\_PHANDLER\_ROUTIN  
45 E"!\_PSECURITY\_DESCRIPTOR\_CONTROL\_t\_FUNCKIND\_\_\_\_  
FXPT2DOT30\_\_\_\_LPLONG

```

__HGLRC__ __HMIDIOUT__ t
INVOKEKIND__ __HMIDISTRM
__HFONT
__HPEN
5 __HICON
__PVOID__
tagMETARECORD__ " __REGSAM__ t __OLEUPDATE__ u __MCIDEVICEID__
__LPSERVICE_MAIN_FUNCTIONW
__! __WORD__ __HMETAFILE__ X__ ABORTPROC
10 __HDRV__ $ __LPSERVICE_MAIN_FUNCTIONA__ ž __LPPRINTHOOKPROC__ u __si
ze__ t__ __LCSCSTYPE
__PBYTE__ __LRESULT__ )
MFENUMPROC
__é__ FPTR
15 __HKEY
__ __UCHAR__ __PTHREAD_START_ROUTINE__ ! __wctype__ t__ __I_RPC_HANDLE
__HDROP__ __MEMBERID
__SHORT__ ! __wchar__ t__ u __MMRESULT__ __XMIT_HELPER_ROUTINE__ __RPC_BI
NDING_HANDLE
20 __" __HIMC__ __I_RPC_MUTEX__
__HMIXEROBJ__ ž __LPSETUPHOOKPROC__ , __RPC_BLOCKING_FUNCTION__
__HBRUSH__ X
SENDASYNCPROC__ ! __FILEOP_FLAGS__ / __LPTIMECALLBACK__ __handle__ t__ __H
LOCAL
25 __t __HFILE__ □ ¾ < □ ¾ J:\Vb60\Line21\L21Dec.c * □ -
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ž ¥ « , !"#%&')+,-/04@CEGHIJLNOPRSVWX[\]
__Debug/stable.objF__ <Microsoft (R) 32-bit C/C++ Optimizing Compiler Version
10.00__ 0
30 __T__ __DataState__ ~
__U__ __ControlState__ □ __V__
XDSSstartState__ ° __V__ XDSContState__ Ð __W__ XDSDDataState__
__X__ XDSEndState__ 0 __Y__ URLDataState__ __XMIT_ROUTINE__ QUINTUPLE
GENERIC_BINDING_INFO__ __tagRPCOLEMESSAGE__ & __MALLOC_FREE_STRU
35 CT" ( __GENERIC_BINDING_ROUTINE_PAIR__ & __MALLOC_FREE_STRUCT__ *
__COMM_FAULT_OFFSETS"__ __FULL_PTR_TO_REFID_ELEMENT" ( __GENERIC
BINDING_ROUTINE_PAIR__ __XMIT_ROUTINE_QUINTUPLE"__ __PFULL_PTR_TO
REFID_ELEMENT
__1__ __GUID__ 3 __LPCLSID__ 6 __tagENHMETARECORD
40 __1__ __GUID__ L __MIDL_STUB_DESC__ S __FULL_PTR_XLAT_TABLES__ __PROP
SHEETPAGEA__ f __PROPSHEETPAGEW
__1__ __CLSID__ , __IRpcChannelBufferVtbl__ , __DLGTEMPLATE__ ‡ __RPC_SYNTAX_ID
ENTIFIER__ Ć __EXCEPTION_RECORD__ Ž __OVERLAPPED__ ‘ __FLOATING_SA
VE_AREA
45 __1__ __IID__ , __DLGTEMPLATE__ __PROPSHEETPAGEA__ ' __LPDLGTEMPLATEA__ f
__PROPSHEETPAGEW__ " __tagPOINT__ — __CONTEXT__ ™ __RPC_VERSION
```

” POINT — CONTEXT  
3 LPIID %\_ PEXCEPTION\_RECORD > \_val\_context  
HDWP  
u PUINT RPC\_SS\_THREAD\_HANDLE\_X CALINFO\_ENUMPROCW\_\_\_R  
5 PC\_AUTH\_IDENTITY\_HANDLE\_6\_  
ENHMETARECORD&  
SECURITY\_CONTEXT\_TRACKING\_MODE\_X DATEFMT\_ENUMPROCW\_t  
PSID\_NAME\_USE\_\_ MIDICALLBACK@20"! SECURITY\_DESCRIPTOR\_CONTROL  
10 EXPR\_EVAL\_ž LPFRHOOKPROC\_X CALINFO\_ENUMPROCA\_i PFNC  
ALLBACK\_X DATEFMT\_ENUMPROCA\_ı ICMENUMPROCW\_©\_  
PQUERYHANDLER  
@\_FLOAT " LPDWORD RPC\_AUTHZ\_HANDLE\_u MMVERSION  
HRSRC RPC\_FORWARD\_FUNCTION@20" \_®\_ PTOP\_LEVEL\_EXCEPTION\_F  
15 ILTER  
HCONV  
\_ BYTE LONGLONG\_a LPPROPSHEETPAGEW\_± ICMENUMPROCA\_! LP  
WSTR " ACCESS\_MASK " COLORREF\_Z LPPROPSHEETPAGEA ' PIMAG  
20 E\_TLS\_CALLBACK HWAVEOUT \$ PRPC\_RUNDOWN HENHMETAFILE  
\_t PBOOL\_‡\_ RPC\_SYNTAX\_IDENTIFIER\_X DESKTOPENUMPROCW " \_u lo  
ng  
\_t SPTR !\_ LPOLESTR\_\_ NDR\_CCONTEXT  
\_u UINT\_X WNDENUMPROC\_X DESKTOPENUMPROCA\_¶\_ WNDPROC\_"  
25 HREFTYPE # DWORDLONG  
\_p LPSTR\_t  
TOKEN\_TYPE  
! BSTR  
RPC\_NS\_HANDLE  
30 HDESK " PDWORD ° EXCEPTION\_POINTERS !  
CLIPFORMAT !\_ LPWORD\_t TYPEKIND\_X CODEPAGE\_ENUMPROCW  
\_p HPSTR\_d LPFNPSPCALLBACKW !\_ OLECHAR\_X ENUMRESLANGPROC  
\_t VARKIND\_X CODEPAGE\_ENUMPROCA\_] LPFNPSPCALLBACKA\_\_  
RPC\_BUFPTR\_X WINSTAENUMPROCW\_½\_ RPC\_AUTH\_KEY\_RETRIEVAL\_FN  
35 !\_ LPCOLESTR\_\_ SC\_HANDLE  
HTASK\_Ä REGISTERWORDENUMPROCW\_X TIMEFMT\_ENUMPROCW\_  
X WINSTAENUMPROCA  
! ATOM !\_ LPCWSTR\_X DLGPROC\_Ä REGISTERWORDENUMPROCA\_\_  
HOLEMENU  
40 \_t BOOL RPC\_OBJECT\_INQ\_FN@12  
" ULONG\_X TIMEFMT\_ENUMPROCA\_«\_ PEXCEPTION\_POINTERS\_Æ\_tag  
HELPINFO\_t CALLCONV\_\_ LPMENUTEMPLATEA\_\_ HGLOBAL\_\_ LPVOI  
D\_\_  
RPC\_IF\_HANDLE\_X HOOKPROC  
45 \_p\_PSTR\_ž LPCFHOOKPROC\_!\_ USHORT\_7\_

LPHMIDIOUT\_\_HRESULT\_\_  
\_\_PUCHAR\_\_DISPID\_\_È\_\_PFULL\_PTR\_XLAT\_TABLES\_\_ž\_LPCCHOOKPROC\_\_  
\_\_LPBYTE\_\_  
\_\_X\_\_PROC  
5 \_\_A\_\_DATE\_\_Đ\_\_  
ENHMFENUMPROC  
\_\_PSID\_\_  
\_\_t\_\_LPINT\_\_  
\_\_Ñ\_\_SNB\_\_  
10 \_\_p\_\_CHAR\_\_p\_\_LPCSTR\_\_Ó\_\_SERVER\_ROUTINE\_\_  
\_\_SCODE&\_\_Ø\_\_LPOVERLAPPED\_COMPLETION\_ROUTINE\_\_Ů\_\_  
YIELDPROC\_\_!\_\_VARTYPE\_\_HWAWEIN\_\_ß\_\_IRpcChannelBuffer\_\_ß\_\_IRpc  
ChannelBuffer\_\_ž\_\_LPPAGEPAINTHOOK\_\_t\_\_  
OLERENDER\_\_u\_\_LPUINT\_\_X\_\_GOBJENUMPROC\_\_  
15 HMETAFILEPICT\_\_Ñ\_\_LPBSTR\_\_  
\_\_byte\_\_@\_\_PFLOAT\_\_"\_\_PSECURITY\_INFORMATION\_\_\$\_\_NDR\_RUNDOWN\_\_  
LPCVOID\_\_"\_\_SERVICE\_STATUS\_HANDLE\_\_ž\_\_LPPAGESETUPHOOK\_\_  
\_\_u\_\_u\_\_int\_\_!\_\_wint\_\_t\_\_â\_\_  
20 LPMMIOPROC\_\_  
STUB\_THUNK\_\_  
\_\_9\_\_sval\_\_  
\_\_!\_\_WCHAR\_\_HGDIOBJ\_\_X\_\_ENUMRESNAMEPROC\_\_HCONVLIST\_\_  
\_\_HSZ\_\_  
25 \_\_t\_\_INT\_\_HDDEDATA\_\_å\_\_tagHANDLETABLE\_\_X\_\_FARPROC\_\_X\_\_  
PROPENUMPROCW\_\_"\_\_MCIERROR\_\_t\_\_L\_\_€\_\_€\_\_  
\_\_\_\_\_(())\*\*,-  
..//1122334455668899::;<<==>>@@AABBCCDDEEFFGGHHIIJJKKLLMMNNOOPPQQ  
30 RRSSTTUUVVWWXXYYZZ[[\]]^``ddeehhiikkllmmooqqssttwwxx{||}}███€€□□ff,,,†  
†^%o%oŠŠ<<€€€□□ŽŽ□□',''''''..\_\_\_\_  
TMTM©©ªª««®®°°±±²²³³´´µµ¶¶··¸¸¹¹ºº»»¼¼½½¾¾¿¿ÀÀÁÁÂÂÃÃÄÄÅÅÆÆÇÇÈÈÉÉÊÊËËÌÌÍÍÎÎÏÏÐÐÑÑÒÒÓÓÔÔÕÕÖÖ××ØØÙÙÚÚÛÛ  
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@€i>€@€,,@€4€ðA€:€Ü@€\_@€Ä;€\$:€`6€I@€"¿€ð6€i7€ð2€hA€Ä<€i=€`A€\_A€,¿€~A€\_3€  
35 XA€p¿€¼9€\$9€HA€">€,¿€@7€à¿€ð¿€T@€¼@€8A€H;€È2€L6€P7€°8€X3€\_@€ð3€Ü4€t5  
€ø:€Ö>€\$>€ø9€I€C(A€|3€\_4€t8€9€€45€□3€D@€ø¿€PCE¼B€,3€`6€X=€`5€`>€`4€,¿€ø>€\_?  
€Ü3€i;€d7€"=€-@€□7€`5€t@€\;€p;€D9€H<€d@€\_,;€B€,5€":€p6€<€\_;€T9€üB€<9€äA€äC€  
\_6€i9€ä9€Ø;€Ü8€°<€|C€°;€\_4€h:€\$C€<€ðB€,6€i=€€=€€9€0;€"=€7€È4€ø8€-B€`9€È6€i>  
\_€ø8€È5€`6€\_?€øA€\_€D>€ä:€4>€A€d>€XB€X?€T>€`A€\_C€,7€<B€ø3€¼C€Ä=€";€8C€I  
40 C€C€4€p<€,B€D8€,8€xA€,8€ü@€\8€i@€P:€x7€À:€\_5€8?€øø6€(?€D?€>€□C€0<€=€P4€Ü5  
€ĐA€\$4€ÔB€,?€D3€,5€,3€Ü2€,C€,B€C€B€Ä8€Ø=€|:€-C€`8€ð5€,€:€□@€<4€È7€,ë\_\_aut  
odr\_\_breake\_\_case\_\_R\_\_charl\_\_consthk\_\_continuei9\_\_defaultky\_\_do\_\_X\_\_doublemQ\_\_else  
\_\_,\_\_enum\_\_  
\_E\_\_extern\_\_°\_\_floatq\_\_fors\_\_gotot\_\_  
45 \_\_if\_\_À\_\_int\_\_0\_\_long\_\_register:ž\_\_return\_\_ÿ\_\_short\_\_

```

signed/m_sizeof    static T_struct†ø_switch_I_typedef
union - unsigned > void2: volatile%oy while ' inline(ó cdecl. based,,
I stdcallÄ< declspec±Lasm²& catch classðÄ const cast□^deleteñĬ dynamic_cas
t_çfriend_n_€inlineŽinew™¢_operator<I_private€©_protected□»_publicēũreinterpret_castĬ
5 static_cast³Étemplate¹_this'&throwµ..._try{ð_typeid_&_virtualĭ—
namespaceĭH_using >_single_inheritance_ũ_multiple_inheritance_____virtual
inheritance_$_novtordisp;_resume!_nounwind_~_syscall_r_near_
_Á_far_____far16_ý_huge_-_fortran_d4€
export_ð_interrupt_s_loadds_a_saveregs_Ä_segment²_segname_Ö_self_
10 ^_thiscall(ũ_cdecl_Y_far`_fortran_r_huge_ç_near_4_pascal_Ô_pascal©ĭ_
_tryª_except«_____finally@_leave-
_asm)Æ_fastcall_€_unaligned_™_builtin_alignof_c_sysapi_)_b
uiltin_isfloat_±_wchar_t_”_restrictÖÖ_int8×m_int16Øq_int32Ü_ in
t64_ò_int128â#wchar_t_ë_inline(ũ_cdecl. based,¥_stdcallÂP_declspec_Ö
15 _syscall_w_near_1_far_____far16_____huge_____fortran_____export_.pasca
l©]_tryª)_except«ĭ_finally_V_ leave-
$ _asm)†_fastcallÖÜ_int8×f_int16Ø†_int32Ü•_int64*_€dllimport_Ø_€dllexport³_
€naked_3_€thread·_€allocate6_strset2_setjmpd_rotl^_rotr%_outpwv_outpd_outp
~_lrotrx_lrotr_inpwð_inpd”_inp/_exception_info_exception_codeQ_enable_disa
20 bleª_alloca”_abnormal_termination, _ull_rshiftØ<€]_ll_rshiftE_ ll_lshiftb_emuluũ_
_emul+_ReturnAddressð4€-_atan2Ž_atanž_asin»acos_abs_cosh~?€bcosexp_fmod$ fabsx
_inpw_e_inpd¼_inpi_log1086€çlog_labsÄ_memsetômemcpyßmemcmp%_outpwv_outpdr_ou
tp7_pow<_strsetÆ_strlenl_strcpyW_strcmp+_strcat_sqrt'_sinhF_sinR_tanh_>€6_tanždefine
d_____formalÇ_...Äabstract_declaratorf_main†_WinMain_DllMain»_alignment
25 member.z_unnamed,=€$€C.drectve□_local_static
guard.ðCatch@_LOCAL_SIZE!_LINE_Var]_LINE_'_FILE_¥_DATE_
M_TIME_ũ_TIMESTAMP_”_INTEGRAL_MAX_BITSú_M_IX86
_MSC_VER,_WIN32{ _MT¹_WIN32Ĭ_NDEBUG8_WINDOWSE_J:Vb60Line2
1\Parity.cÄžEÜ{€_€P{€{€_€x{€iz€_€ð{€,€Ĭ{€Øžed{€<{€'€€{€{€_€p-
30 €Ø'€”žEÖ'€_žE_□€h'€È'€ä□€
□€”€t□€”žEøžE,žEA@cc@ABB@CC@LL@DD@_€A_A@c_'€|€x€€¼¢€H_Ex|€
ÿ_”€.”€_€ä”€Ĭ'€4”€Ä•€Ü_€_€°_€D”€4□€h”€D™€€—
€Ĭ'€r€”€_™€<€_”€_”€□€H□€_€_—€ð□€€□€_□€Ĭ'€_□€Ü_€Ä_€_”€<•€,-€ä—
€€”€”€”€<€_□€_—€4_€_—€_•€@'€_”€œ_€ä□€_□€è_€p”€D-
35 €”_•€h_€i_€_Ĭ_xžEc_žE_€_žE_>€□€_£_—žE_xžEA_ũžE_,>€_žE_Ü_□_<€x□€_
c@_žE_L>€x□€_Ÿ_\>€ä□€_°_B@_žE_L>€$□€_á_D@_žE_L>€žE_©_€>€$□€_
_¢_œ>€$□€_i_—>€ä□€_¼>€$□€_à_Ĭ>€žE_”_Ü>€_Ĭ_€_Ü€_ũžE_ð>€_$□
_€_Ü€_?€Ø'€_±€_žE_?€Ø'€_²_0?€_Ĭ_€
_Ø_□_@?€_žE!_×€_”€œ'€_ē_L@_žE_x?€Ü'€#_ē_L_žE_€?€œ'€$_é_?€œ'€%_Ĭ_°?
40 €Ü'€&_Ĭ_Ä?€_Ĭ'€_ä€_Ø?€Ĭ'€( ... _žE_è?€Ĭ'€)_f_ø?€Ĭ'€*_ _□_@€Ĭ'€+_ _□_@€”
žE,_ _$@€Ĭ'€-
_¥_ _“€4@€Ĭ'€._o_@@€Ĭ'€/ _a_L@€Ĭ'€0_ _\@€Ĭ'€1_ _Ĭ@€ä□€2_ _A_Ĭ@€$□€3_à
A_€@€”žE4_”A_”@€Ĭ'€5_Ĭ_”@€Ĭ'€6_e_’@€Ĭ-
€7_ _D_žE_Ä@€Ĭ'€8_ _Ö@€Ĭ'€9_ _ä@€žE: _a_ð@€ä□€;_°B_ A€x□€<_áb_A€ž
45 €=_©B_$A€Ĭ'€>_®_0A€□€?_£B_@A€x□€@_§_PA€□€A_□_”A€žEB_¥_pA€□€C_Ĭ_
_€A€Ĭ'€D_]_□_A€Ĭ'€E_‡_A€Ĭ'€F_k_—A€Ĭ'€G_<_ĬžE¼A€Ĭ'€H_s_ _Èz€_ _Èz€P

```

5





File: stable.obj

```

L_
5 mTM9d-.drectve(d
  .datax_œ_p@@À-defaultlib:LIBCMT -defaultlib:OLDNAMES ,__
  +
  *_)_$( $_)_4
  8&@_D"_H!_P_T(X_`
10 h_p_t+_
  €*_,)œ_□$")œ
  &"_~"!_¼_À_È
  Ì_Ð_Ø
  Û_à_è
15 Ì_ð_ø_ü
  (
  ,_0_4_<_
  @_D_L_
20 P(X_
  `_,h_1(p'x_€_,^
  œ(□#~&"_~*°)_¼_$_À_)È
  Ì"Ð!Ø_Û_(à_è_ð(ô_%ü
  ,_+_*_)_$( $_)_4
25 8&@_D"_H!_P_T_X_\_d_h_(l_t_.filepÿg_J:\Vb60\Line21\stable.c
  .drectve__(.data_x_p_ð_€_;'_Jh_X_XDSDData_c_s_CRTest
  _PACTest_,_"_®_,_Â_Î_URLTest_Û_è_ð_'_4_XDSCont_A_
  _XDSEnd_N_Z_d_q_{_%_""
  ž_URLDataState_XDSEndState_XDSDDataState_XDSContState_XDSSStartState_ControlSt
30 ate_DataState_CtrlChangeTest_ChannelChange_EndOfCaptionTest_TextDecode_TextMode
  Test_DumpText_DataSave_URLEndTest_URLDecode_PaintOnDecode_PaintOnTest_RollU
  pDecode_RollUpTest_PopOnDecode_PopOnTest_ControlSave_ControlTest_XDSContTest_
  XDSEndTest_XDSSStart_DefaultTest_XDSBegin_XDSSStartTest_F1XDSTest_NullTest

35

```

File: Tests.obj

```
L_#_mTM9e
5 Z.drectve(Œ_
  _text'_P'.debug$F_°Ê_H_B.text
  Œ_P'.debug$F_ßî_H_B.text_ø_P'.debug$F_____H_B.text_)
  P'.debug$F_B_R_H_B.text\_P'.debug$F_u..._H_B.text
  □_P'.debug$F_œ¬_H_B.text_¶_P'.debug$F_Ë_Û_H_B.text5â
10 P'.debug$F_*_H_B.text54_P'.debug$F_i_y_H_B.text0f_
  P'.debug$F_³_Ã_H_B.text0Í_P'.debug$F_ý_
  H_B.text0_P'.debug$F_G_W_H_B.text&a_P'.debug$F_‡_—_H_B.text;i_
  P'.debug$F_Û_i_H_B.text0ö_P'.debug$F_&_6_H_B.text+@
  P'.debug$F_k_{_H_B.textÆ..._P'.debug$F_K
15 [
  H_B-defaultlib:LIBCMT -defaultlib:OLDNAMES ,_Ã____€|$_____À÷ØÃ
  _€|$_s
  f|$_u_,_Ã3ÃÃ____$D$_,_Àt<_s
  _t_,_Ã3ÃÃ____$D$_,_Àt<_s
20 _u_,_Ã3ÃÃ____$D$_,<_Ã÷ØÃ
  _$D$<_v
  <s_,_Ã3ÃÃ_%_<D$_<L$_<D□üfø_t_fø_t
  fø_t_fø_u$D$<*_t<+t_3ÃÃ_,_Ã5_*_<D$_<L$_<D□üfø_t_fø_t
  fø_t_fø_u_$D$<$v
25 <(s_,_Ã3ÃÃ5/_<L$_<D$_<D`üfø_t_fø_t
  fø_t_fø_u
  €|$_)u_,_Ã3ÃÃ0_4_<D$_<L$_<D□üfø_t_fø_t
  fø_t_fø_u
  €|$_u_,_Ã3ÃÃ0_9_<D$_<L$_<D□üfø_t_fø_t
30 fø_t_fø_u
  €|$/_u_,_Ã3ÃÃ0_>_<D$_<L$_<D□üfø_~_fø_}
  €|$_?v_,_Ã3ÃÃ&_C_<L$_<D$_$T$_□D`ü€ú_<H_<v_€ú@s_fø_}...Éu
  fø_~_fù_t_,_Ã3ÃÃ;_H_<D$_<L$_<D□üfø_t_fø_t
  fø_t_fø_u
35 €|$_-
  u_,_Ã3ÃÃ0_M_<L$_<D$_fù_<D`üu_fø_u_$D$<*_t<+u_,_Ã3ÃÃ+_R_<L$_<D$_I<ÑÁâ_Á
  á
  <'_$_fü_□_,_Ž_€|$_]_...□_Â€xú[_,_,,ŠHü€ù0|_€ù9~_€ùA|_€ùF~
  €ù|h€ùf_çŠHý€ù0|_€ù9~_€ùA|_€ùF~
40 €ù|h€ùf_ßŠHþ€ù0|_€ù9~_€ùA|_€ùF~
  €ù|h&€ùf_!Š@ÿ<0|_<9~_<A|_<F~_<a|
  <f_.,_Ã3ÃÃÆ_W_.fileþÿg_J:\Vb60\Line21\Tests.c.drectve__(.text_____
  _debug$F_____.text_____
  __.debug$F_____.text______.debug$F_____.text_____&__.debug$F
45 _____text
  _____4
```



File: XDCMessages.obj

```

L_m™9ê :directve(ä_
5 _text_____P'.data_9_@_0À.data_<_@_0À.debug$F_A_Q_H_B.textý_[X_

_P'.data_Ú_@_0À.data_i_@_0À.data_ï_@_0À.data_ò_@_0À.data_õ_@_0À.data_ø_@_0À
.data
ü_@_0À.data
10 _@_0À.debug$F_____H_B.texth_*_'_____P'.data_Î_@_0À.debug$F_Ð_à
_H_B-defaultlib:LIBCMT -defaultlib:OLDNAMES <
SV,<TSW\$_U%
Š@_`B_<fH_Áà_fL_□@+À□<M'ÿÿÿÿò@÷Ñ+ù<é<÷'ÿÿÿÿú+Àò@O<ÍÁé_ó¥Ífá_ó¤¿'ÿÿÿ
ÿ+Àò@÷Ñ+ù<é<÷'ÿÿÿÿú+Àò@O<ÍÁé_ó¥Ífá_ó¤<fH_Áà_fL_Áà_□_@<Œ_T_ÊÆ,,X_<f
15 H_Áà_fL_Áà_□@+À□¼_X_'ÿÿÿÿò@÷Ñ+ù<Û<÷'ÿÿÿÿú+Àò@O<ÊÁé_ó¥Ê]fá_ó¤^[Ä_
_6_d
_XDS
_____fì_,S<_VW<T$_Ud$_%MŠ@_`E_<,H_Áà_,L_□@+À□<M'ÿÿÿÿò@÷Ñ+ù<Û<÷'ÿÿÿ
20 ÿÿ<ý+Àò@O<ÊÁé_ó¥Êfá_ó¤<,H_Áà_,L_Áà_□@Šœ_X_□_Š,,Y_`D$_ŠÁ$_Áè_,,Á_,,ð_
<_,è<_...`_¿'ÿÿÿÿ+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Ê3Òfá_ó¤ŠT$_'ÿÿÿÿfá_+
À<<÷ò@÷Ñ+ù%L$_<÷'ÿÿÿÿý+Àò@O<L$_Áé_ó¥L$_€ä_Äè_fá_ó¤ŠD$_$8
ØŠD$_Äü_$
ØÄü_"šöÄ_t0¿'ÿÿÿÿ+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Êfá_ó¤öÄ_t0¿'ÿÿÿÿ+Àò@÷
25 Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Êfá_ó¤öÄ_t0¿'ÿÿÿÿ+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁ
é_ó¥Êfá_ó¤öÄ_t0¿'ÿÿÿÿ+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Êfá_ó¤öÄ_,,Ü¿'ÿÿÿÿ+
Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Ê]fá_ó¤^[fÄ_Ä¿'ÿÿÿÿ+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+
Àò@O<ÊÁé_ó¥Ê]fá_ó¤^[fÄ_Ä¿'ÿÿÿÿ+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Êfá_ó¤3
Ä'ÿÿÿÿŠÄfä_<...+Àò@÷Ñ+ù<Ñ<÷'ÿÿÿÿý+Àò@O<ÊÁé_ó¥Êfá_ó¤]^[fÄ_Ä_
30 _6_-(i.;-E%_z_"_ä_____U_□_+_Ê_,_OTHER - non-USA,D,L,S,V,FV
TVPG - MPAA -
ý_____<_SV,<L$WU%_Š@_<T$_`A_<,H_Áà_,L_□@+À□<M'ÿÿÿÿò@÷Ñ+ù<Û<÷'ÿÿÿÿ
<|$_+Àò@O<ÊÁé_ó¥Êfá_ó¤¿'ÿÿÿÿ+Àò@÷Ñ+ù<Û<÷'ÿÿÿÿ<|$_+Àò@O<ÊÁé_ó¥Êfá_ó¤3Ü<,
H_Áà_,L_Áà_□@9œ_T_Ž<,H_Áà_,L_Áà_□_@_Ä_¼Œ_X_+À<□€ÿÿÿÿ'ÿÿÿÿò@÷Ñ+
35 ù<é<÷'ÿÿÿÿ<|$_+Àò@O<ÍÁé_ó¥Ífá_ó¤¿'ÿÿÿÿ+Àò@÷Ñ+ù<é<÷'ÿÿÿÿ<|$_+Àò@O<ÍÁé_Có¥Íf
á_ó¤<,H_Áà_,L_Áà_□@9œ_T_□Xÿÿÿ]_[Ä_
_6_f
_ß7_6_h_3_.fileþÿg_J:\Vb60\Line21\XDSMessages.c.directve_(.text_____Def_
40 _data_____data_____XDSMes_.debug$F_____text_ý_
_Vcp_._data_3_.data_____data_ü_.data
____<
_.data_____i_.data_____._data
_Î
45 _data_____

```

2025-09-24 14:54:54

5     \_i\_\_\_\_\_'.debug\$F\_\_\_\_\_ .text \_\_\_\_h\_\_\_\_\_Typ\_  
      \_.data\_\_\_\_\_4\_\_\_\_\_types\_.debug\$F\_\_\_\_\_I ??\_C@\_02IHLC@?5?5?\$AA@??\_C@\_04EPN  
      H@XDS?5?\$AA@??\_C@\_0BC@NEMK@?5?5OTHER?5?9?5non?9USA?\$AA@??\_C@\_  
      02DFDA@?0D?\$AA@??\_C@\_02GBII@?0L?\$AA@??\_C@\_02MJKF@?0S?\$AA@??\_C@\_  
      @\_02MJGO@?0V?\$AA@??\_C@\_03LEKC@?0FV?\$AA@??\_C@\_09GMHB@?5?5TVPG  
      ?5?9?5?\$AA@??\_C@\_09NPEP@?5?5MPAA?5?9?5?\$AA@\_mpaaRatings\_flagmask\_tvp  
      gRatings??\_C@\_01FCOA@?5?\$AA@

File: XDSROM.obj

```
L_v
5 mTM9¶io_drectve(, _
.data _ @_0À.data _ ' @_0À.data _¼ @_0À.data _Ä @_0À.data _Ì @_0À.data _Ô @_0À.
.data _Û @_0À.data _ä @_0À.data _ê @_0À.data _ò @_0À.data _ù @_0À.data
@_0À.data _
@_0À.data _ @_0À.data _ @_0À.data _ @_0À.data
10 + @_0À.data _4 @_0À.data _< @_0À.data _C @_0À.data _K @_0À.data _S @_0À
.data _Z @_0À.data _a @_0À.data _h @_0À.data _p @_0À.data _w @_0À.data
~ @_0À.data _< @_0À.data _" @_0À.data _ÿ @_0À.data
" @_0À.data _± @_0À.data _ , @_0À.data
ì @_0À.data _È @_0À.data _Ð @_0À.data _Ö @_0À.data
15 á @_0À.data _ê @_0À.data _ò @_0À.data _ú @_0À.data _ÿ @_0À.data _ _ @_0À.d
ata _
@_0À.data _ _ @_0À.data
@_0À.data _# @_0À.data _1 @_0À.data _= @_0À.data _I @_0À.data _P @_0À.data _U @
_0À.data _\ @_0À.data _b @_0À.data _j @_0À.data _v @_0À.data _} @_0À.data _^ @_0À.
20 data _□ @_0À.data
" @_0À.data _ž @_0À.data _^ @_0À.data
^ @_0À.data _» @_0À.data _À @_0À.data _È @_0À.data _Ð @_0À.data _Ö @_0À
.data
ÿ @_0À.data _æ @_0À.data _î @_0À.data _ù @_0À.data _ÿ @_0À.data _ _ @_0À.d
25 ata _ @_0À.data
@_0À.data _$ @_0À.data _-
@_0À.data _5 @_0À.data _@ @_0À.data _G @_0À.data _N @_0À.data
V @_0À.data _` @_0À.data _i @_0À.data _r @_0À.data
} @_0À.data _† @_0À.data _□ @_0À.data
30 ~ @_0À.data _¢ @_0À.data _« @_0À.data _¹ @_0À.data _À @_0À.data _Æ @_0À.data
Í @_0À.data _× @_0À.data _Û @_0À.data _â @_0À.data
ð @_0À.data _ú @_0À.data _ _ @_0À.data _ _ @_0À.data _ _ @_0À.data _
@_0À.data _ _ @_0À.data
% @_0À.data _/ @_0À.data _1 @_0À.data _7 @_0À.data _9 @_0À.data _? @_0À.data _B _
35 @_0À.data _D @_0À.data _Ü+H_$Bö _@@_À-defaultlib:LIBCMT -defaultlib:OLDNAMES
Roll4 Roll3 Roll2 Paint Pop
WesternWeatherVideoVarietyTravelTennisTechnicalTalkSuspenseSpecialSoap
OperaShoppingServiceSeriesScienceRomanceReviewRepeatRepairReadingRacingPublicProf
essionalProductPrerecordedPremierePoliticsPoliceNatureNationalMysteryMusicMiniseriesM
40 ilitaryMeetingMedicalMathLocalLiveLegalLanguageInterviewInternationalInstructionInform
ationHorrorHomeHockeyHobbyHistoryHigh
SchoolHealthGovernmentGolfGardenGame/QuizFund
RaiserForeignFootballFoodFictionFashionFarmFantasyExerciseEroticaElementaryDramaDoc
umentaryDanceCrimeContemporaryConsumerConcertCommentaryComedyCombatCollegeC
45 lassicalBusinessBulletinBasketballBaseballAwardsAutomobileAnthologyAnimatedAdvertise
mentActionOTHERSportsReligiousNewsMovieEntertainmentEducationTV-MA TV-14 TV-
```

PG TV-GTV-Y7 TV-YNNoneNot RatedXNC-17RPG-13PGGN/A\_\_ \_ \_ \_

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15

Null StartDuratShow Type

VChipAudioCapti0108 Aspec010A 010B Comp1Comp2010E 010F

Desc1Desc2Desc3Desc4Desc5Desc6Desc7Desc80118 0119 011A 011B 011C 011D 011E

011F 0120 0121 0122 0123 0124 0125 0126 0127 0128 0129 012A 012B 012C 012D 012E

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5 092E 092F 0930 0931 0932 0933 0934 0935 0936 0937 0938 0939 093A 093B 093C 093D  
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10 097E 097F 0B00 WSCodWSMes0B03 0B04 0B05 0B06 0B07 0B08 0B09 0B0A 0B0B  
0B0C 0B0D 0B0E 0B0F 0B10 0B11 0B12 0B13 0B14 0B15 0B16 0B17 0B18 0B19 0B1A  
0B1B 0B1C 0B1D 0B1E 0B1F 0B20 0B21 0B22 0B23 0B24 0B25 0B26 0B27 0B28 0B29  
0B2A 0B2B 0B2C 0B2D 0B2E 0B2F 0B30 0B31 0B32 0B33 0B34 0B35 0B36 0B37 0B38  
0B39 0B3A 0B3B 0B3C 0B3D 0B3E 0B3F 0B40 0B41 0B42 0B43 0B44 0B45 0B46 0B47  
15 0B48 0B49 0B4A 0B4B 0B4C 0B4D 0B4E 0B4F 0B50 0B51 0B52 0B53 0B54 0B55 0B56  
0B57 0B58 0B59 0B5A 0B5B 0B5C 0B5D 0B5E 0B5F 0B60 0B61 0B62 0B63 0B64 0B65  
0B66 0B67 0B68 0B69 0B6A 0B6B 0B6C 0B6D 0B6E 0B6F 0B70 0B71 0B72 0B73 0B74  
0B75 0B76 0B77 0B78 0B79 0B7A 0B7B 0B7C 0B7D 0B7E 0B7F 0D00 0D01 0D02 0D03  
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20 0D12 0D13 0D14 0D15 0D16 0D17 0D18 0D19 0D1A 0D1B 0D1C 0D1D 0D1E 0D1F  
0D20 0D21 0D22 0D23 0D24 0D25 0D26 0D27 0D28 0D29 0D2A 0D2B 0D2C 0D2D  
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0D3D 0D3E 0D3F 0D40 0D41 0D42 0D43 0D44 0D45 0D46 0D47 0D48 0D49 0D4A 0D4B  
0D4C 0D4D 0D4E 0D4F 0D50 0D51 0D52 0D53 0D54 0D55 0D56 0D57 0D58 0D59 0D5A  
25 0D5B 0D5C 0D5D 0D5E 0D5F 0D60 0D61 0D62 0D63 0D64 0D65 0D66 0D67 0D68 0D69  
0D6A 0D6B 0D6C 0D6D 0D6E 0D6F 0D70 0D71 0D72 0D73 0D74 0D75 0D76 0D77  
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her?\$AA@??\_C@\_05HAHE@Video?\$AA@??\_C@\_07GOLO@Variety?\$AA@??\_C@\_06  
15 MAKO@Travel?\$AA@??\_C@\_06IECD@Tennis?\$AA@??\_C@\_09MAPH@Technical?\$A  
A@??\_C@\_04MNKN@Talk?\$AA@??\_C@\_08EABE@Suspense?\$AA@??\_C@\_07GALJ  
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AA@??\_C@\_07KNHF@Service?\$AA@??\_C@\_06NHCF@Series?\$AA@??\_C@\_07LHB  
D@Science?\$AA@??\_C@\_07HHNK@Romance?\$AA@??\_C@\_06HNJB@Review?\$AA  
20 @??\_C@\_06NPIB@Repeat?\$AA@??\_C@\_06NNPN@Repair?\$AA@??\_C@\_07NCCF@R  
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25 ational?\$AA@??\_C@\_07GPIF@Mystery?\$AA@??\_C@\_05PHIM@Music?\$AA@??\_C@\_0  
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ng?\$AA@??\_C@\_07HHJI@Medical?\$AA@??\_C@\_04LHAK@Math?\$AA@??\_C@\_05P  
HNP@Local?\$AA@??\_C@\_04HLML@Live?\$AA@??\_C@\_05NPLB@Legal?\$AA@??\_C@\_0  
\_08DFDG@Language?\$AA@??\_C@\_09IAGO@Interview?\$AA@??\_C@\_0O@FJHI@I  
30 nternational?\$AA@??\_C@\_0M@PJEI@Instruction?\$AA@??\_C@\_0M@LKAF@Informati  
on?\$AA@??\_C@\_06KKNE@Horror?\$AA@??\_C@\_04OGPG@Home?\$AA@??\_C@\_06K  
GO@Hockey?\$AA@??\_C@\_05LHBI@Hobby?\$AA@??\_C@\_07JFNM@History?\$AA@?  
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35 AA@??\_C@\_09CNC@Game?1Quiz?\$AA@??\_C@\_0M@ENFA@Fund?5Raiser?\$AA@?  
?\_C@\_07JNNB@Foreign?\$AA@??\_C@\_08NPEO@Football?\$AA@??\_C@\_04JEEI@Foo  
d?\$AA@??\_C@\_07IHEG@Fiction?\$AA@??\_C@\_07MCO@Fashion?\$AA@??\_C@\_04I  
FFI@Farm?\$AA@??\_C@\_07OCKK@Fantasy?\$AA@??\_C@\_08JEHB@Exercise?\$AA@?  
?\_C@\_07NCAH@Erotica?\$AA@??\_C@\_0L@JBPC@Elementary?\$AA@??\_C@\_05CGP  
40 O@Drama?\$AA@??\_C@\_0M@NOLC@Documentary?\$AA@??\_C@\_05FKAK@Dance?\$  
AA@??\_C@\_05HMON@Crime?\$AA@??\_C@\_0N@KIIC@Contemporary?\$AA@??\_C@\_0  
\_08JELE@Consumer?\$AA@??\_C@\_07DLE@Concert?\$AA@??\_C@\_0L@LGND@Com  
mentary?\$AA@??\_C@\_06IGJL@Comedy?\$AA@??\_C@\_06CAIJ@Combat?\$AA@??\_C@\_0  
\_07LGJO@College?\$AA@??\_C@\_09JFNA@Classical?\$AA@??\_C@\_08FMGD@Busin  
45 ess?\$AA@??\_C@\_08FKAB@Bulletin?\$AA@??\_C@\_0L@PKKG@Basketball?\$AA@??\_C@\_08GPNH@Baseball?\$AA@??\_C@\_06IPOB@Awards?\$AA@??\_C@\_0L@CFFG@A

utomobile?\$AA@??\_C@\_09IADM@Anthology?\$AA@??\_C@\_08HEBO@Animated?\$AA  
@??\_C@\_00@PINI@Advertisement?\$AA@??\_C@\_06NMFG@Action?\$AA@??\_C@\_05  
FGEM@OTHER?\$AA@??\_C@\_06BIM@Sports?\$AA@??\_C@\_09IEGM@Religious?\$A  
A@??\_C@\_04KJCI@News?\$AA@??\_C@\_05CHKH@Movie?\$AA@??\_C@\_00@JFFK  
5 @Entertainment?\$AA@??\_C@\_09HOLD@Education?\$AA@??\_C@\_06HOCB@TV?9MA  
?5?\$AA@??\_C@\_06BJIF@TV?914?5?\$AA@??\_C@\_06KCEN@TV?9PG?5?\$AA@??\_C  
@\_04HI@TV?9G?\$AA@??\_C@\_06HFLA@TV?9Y7?5?\$AA@??\_C@\_04CMC@TV?9Y?  
\$AA@??\_C@\_04COF@None?\$AA@??\_C@\_09HKPO@Not?5Rated?\$AA@??\_C@\_01FI  
AI@X?\$AA@??\_C@\_05DMNK@NC?917?\$AA@??\_C@\_01FJJO@R?\$AA@??\_C@\_05  
10 MAGO@PG?913?\$AA@??\_C@\_02DACJ@PG?\$AA@??\_C@\_01PACF@G?\$AA@??\_C  
@\_03PHGM@N?1A?\$AA@\_flagmask\_tvpgratings\_mpaaRatings\_MinLength\_MaxLength

2025 RELEASE UNDER E.O. 14176

Appendix C

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5

Cold Fusion

Showtime

10 File: AddComment.cfm

```
<cfif ParameterExists(Edit)>
```

```
    <cfif Len(Trim(NewComment)) GT 0>
```

15

```
        <!-- Get the max of EventID's --->
```

```
        <cfquery name="GetMax"
```

```
        datasource="VBIContent"
```

```
        username="caption"
```

20

```
        password="trewq55">
```

```
        select Max(Eventid)as maxid from ctlfile
```

```
    </cfquery>
```

```
    <cfset newEvent = '#incrementValue(GetMax.maxid)#'>
```

25

```
    <!-- Insert a new record and pass EventID --->
```

```
    <cfquery name="AddEvent"
```

```
    datasource="VBIContent"
```

30

```
    username="caption"
```

```
    password="trewq55">
```

```
    Insert into ctlfile
```

```
    (Eventid,
```

```
    Seconds,
```

35

```
    Type,
```

```
    Clipsource,
```

```
    Comment
```

```
    )
```

40

```
    Values
```

```
    (#newEvent#,
```

```
    #LTime#,
```

```
    'C',
```

```
    '#Clipsrc#',
```

45

```
    '#NewComment#'
```

```

    )
    </cfquery>

    </cfif>
5  <!-- Close Window --->
    <!-- <body onLoad="window.close();" --->
    <cfoutput>
    <cflocation url="/thankyou.cfm?LTime=#LTime#&DS=VBIContent&ClipSrc=#ClipSrc#">

10 </cfoutput>
    </cfif>

    <font face="Arial" size="-1">Type in your comment, then press "Save"<br>
15 <!-- Use LTime for current time --->
    <form action="AddComment.cfm?Edit=Yes" method="POST"
    onSubmit="setTimeout('window.close()',2000);">
    <cfoutput>
    <input type="Hidden" name="LTime" value="#LTime#">
20 <cfif ParameterExists(EventID)>
    <input type="Hidden" name="EventID" value="#EventID#">
    </cfif>
    <input type="Hidden" name="DS" value="#DS#">
    <input type="Hidden" name="ClipSrc" value="#ClipSrc#">
25 </cfoutput>
    <center>
    <textarea name="NewComment" cols="40" rows="2" wrap="VIRTUAL"></textarea>
    <input type="Submit" value="Save"></center>
    </font>
30 </form>
```

File: banner2.cfm

```
<html>
5 <head>
  <title></title>
  </head>
  <SCRIPT LANGUAGE = "JavaScript">
    <!-- hide this script from old browsers
10 LinkWindow="status=no,toolbar=yes,directories=no,menubar=yes,location=yes,scrollbars=y
    es,resizable=yes,HEIGHT=400,WIDTH=600";
    // -->
  </script>
  <body bgcolor="#5B94D1">
15     <CFIF ParameterExists(imgsrc) AND ParameterExists(msg2)>
        <cfoutput>
          <A href="http://#msg2#" target="NetWin"
onClicK="window.open('NetWin',LinkWindow);"><IMG align="left" alt="#caption#"
border=0 src="http://#imgsrc#"></a>
20     </cfoutput>
        <CFELSE>
          &nbsp;
        </CFIF>

25 </body>
</html>
```

File: buttonbar2.cfm

```
<html>
5 <head>
  <title></title>
</head>

<SCRIPT LANGUAGE = "JavaScript">
10 name = 'mymainwindow';
  CaptionWin=null;
  <!-- hide this script from old browsers
  LinkWindow="status=no,toolbar=yes,directories=no,menubar=yes,location=no,scrollbars=yes,
  s,resizable=yes,HEIGHT=480,WIDTH=640";
15 SelectWindow="status=no,toolbar=yes,directories=no,menubar=yes,location=no,scrollbars=yes,
  es,resizable=yes,HEIGHT=400,WIDTH=600";
  function WinOpen()
  {
    if (CaptionWin == null)
20    {
      CaptionWin = window.open("caption2.cfm", "CaptionWin",
      "menubar=0,toolbar=0,resizable=0,width=320,height=360");
      CaptionWin.focus();
      document.forms[0].isWinOpen.value="true";
25      return false;
    }
    else
    {
      if (CaptionWin.closed == true)
30      {
        CaptionWin = window.open("caption2.cfm", "CaptionWin",
        "menubar=0,toolbar=0,resizable=0,width=320,height=360");
        CaptionWin.focus();
        document.forms[0].isWinOpen.value="true";
35        return false;
      }
    }
  }
  //function isWinOpen()
40  //{
  //  if (CaptionWin == null)
  //  {
  //    WinOpen();
  //    CaptionWin.hide();
45  //    return false;
  //  }
}
```



```

//      else
//      {
//          if (CaptionWin.closed == true)
//          {
5 //              return false;
//          }
//          else
//          {
//              return true;
10 //          }
//      }
// }
// -->
</script>

15 <!-- buttonbar in frame name="ButtonWin" --->

<body bgcolor="#8FBC8F" text="Black" link="Blue" vlink="Blue" alink="#FF4500">
<!-- <cfif Channel is ">
20 onLoad="window.open('../Selector/index.cfm','SelectWin',LinkWindow);">
</cfif> --->
<table width='100%' border="0" cellspacing="0" cellpadding="0" bgcolor="#8FBC8F">
    <tr>
        <td width="10" rowspan="3">
25 background="../images/site/transparent.gif"></td>
        <td height="3" colspan="2" background="../images/site/transparent.gif"></td>
        <td rowspan="3" align="RIGHT" valign="TOP"></td>
30 </tr>
        <tr>
            <td><font face="Arial" size="-1">
                <a href="../Selector/channels.cfm" target="SelectWin"
onClick="window.open('','SelectWin',LinkWindow);">Channels</a>
35 </td><td>
                <font face="Arial" size="-1">
                    <a
href="../Links/index.cfm?ClipSrc=<cfoutput>#ClipSrc#</cfoutput>"
40 target="OutLinkWin" onClick="window.open('','OutLinkWin',LinkWindow);">Links</a>
                </td>
        </tr>
        <tr><td>
            <font face="Arial" size="-1">

```

```

                    <font face="Arial" size="-1"> <a
href="../Selector/selections.cfm" target="SelectWin"
onClick="window.open('SelectWin',LinkWindow);">Selections</a>
                    </td><td>
5                        <font face="Arial" size="-1">
                        <cfif NOT Channel is ">
                            <a
href="../chat/index.cfm?Channel=<cfoutput>#Channel#</cfoutput>" target="OutLinkWin"
onClick="window.open('OutLinkWin',LinkWindow);">Chat</a>
10                    </cfif>
                        </td>
                    </tr>
<!--
                    <tr>
                        <td colspan="2">
15                            <font face="Arial" size="-1">
                                <cfif NOT Channel is ">
                                    <a
href="caption2.cfm?Channel=<cfoutput>#Channel#</cfoutput>" target="CaptionWin"
onClick="return(WinOpen())">CC</a>
20                            </cfif>
                                </td>
                                </tr> --->
<tr><td height="3" colspan="4" background="../images/site/transparent.gif">
</td></tr>
25
<tr><td colspan="4">
    <table width="100%" border="0" cellspacing="0" cellpadding="2">
        <form name='SearchForm' action="../Links/search.cfm" target="OutLinkWin"
onSubmit="window.open('OutLinkWin',LinkWindow);
30    setTimeout('document.SearchForm.reset()',2000);" method="POST">
        <input type="Hidden" name="isWinOpen" value="">
        <tr bgcolor="#8FBC8F"><td align="CENTER">
            <font face="Arial" size="1">
                Find <input type="Text" name="SrchFor" size="15" maxlength="50"></font>
35            <center><font size="1"><input type="Submit"
value="Search!"></font></center>
            </td></tr>
            </form>
        </table>
40
</td></tr>
</table>
</body>
</html>
45
```

File: caption2.cfm

```
<html>
<head>
5 <title>Closed Captioning</title>
  <script language="JavaScript">
    function SetUnLoad()
    {
      opener.document.forms[0].isWinOpen.value="false";
10     window.close();
    }
  </script>
</head>
<body bgcolor="ghostwhite">
15 <!-- sponsor in frame name="SponsorWin" --->
  <table width="100%" border="0" cellspacing="0" cellpadding="0" bgcolor="ghostwhite">
    <tr>
      <form name="cc">
        <td align='center'>
20         <table width="95%" border="0" cellspacing="0" cellpadding="0"><tr>
          <td>
            <CFIF ParameterExists(caption)>
              <cfoutput>
                <font size="-1">
25         <textarea name='Caption' cols='40' rows='10'
          wrap="VIRTUAL">#Replace(caption,"||","","ALL")#</textarea>
              </font>
            </cfoutput>
          </cfif>
30         </td>
        </tr>
      </table>
    </td>
  </TR>
35 </form>
</TABLE>
</body>
</html>
```

File: comment2.cfm

```
<html>
5 <head>
  <title></title>
</head>
<SCRIPT LANGUAGE = "JavaScript">
<!-- hide this script from old browsers
10 CommWin=null;
LinkWindow="status=no,toolbar=yes,directories=no,menubar=yes,location=yes,scrollbars=y
es,resizable=yes,HEIGHT=400,WIDTH=600";
SmallWindow="status=no,toolbar=yes,directories=no,menubar=no,location=no,scrollbars=n
o,resizable=yes,HEIGHT=200,WIDTH=400";
15 function WinOpen()
{
    var ltime=parent.DataWin.document.Comments.ltime.value;
    var ltime_1=Math.floor(ltime/1000);
20    var clip=parent.DataWin.document.Comments.Clipsrc.value;
    var ds=parent.DataWin.document.Comments.DS.value;
    var What_url="addcomment.cfm?LTime="+ltime_1+"&ds="+ds+"&Clipsrc="+clip;
    if (CommWin == null)
    {
25        CommWin = window.open(What_url, "CommWin", SmallWindow);
        CommWin.focus();
    }
    else
    {
30        if (CommWin.closed == true)
        {
            CommWin = window.open(What_url, "CommWin", SmallWindow);
            CommWin.focus();
        }
35    }
}

function SetElapseTime()
40 {
    var ltime=parent.DataWin.document.Comments.ltime.value;
    var clip=parent.DataWin.document.Comments.Clipsrc.value;
    var ds=parent.DataWin.document.Comments.DS.value;
    location.href="addcomment.cfm?LTime="+ltime+"&ds="+ds+"&Clipsrc="+clip;
45 }
// -->
```





File: data2.cfm

```

5  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
    <html>
    <head>
        <title>Untitled</title>
    </head>
10  <body>
    <form name="Sponsor" action="sponsor2.cfm" method="post" enctype="application/x-
    www-form-urlencoded" target="SponsorWin">
        <input type="Hidden" name="imgsrc" value="">
        <input type="Hidden" name="msg2" value="">
15  <input type="Hidden" name="caption" value="">
        <input type="Hidden" name="Net" value="">
        <input type="Hidden" name="Channel" value="">
    </FORM>

20  <form name="Links" action="linklist2.cfm" method="post" enctype="application/x-www-
    form-urlencoded" target="LinkListWin">
        <input type="Hidden" name="msg" value="">
    </FORM>

25  <form name="Ad" action="banner2.cfm" method="post" enctype="application/x-www-form-
    urlencoded" target="BannerWin">
        <input type="Hidden" name="imgsrc" value="">
        <input type="Hidden" name="msg2" value="">
        <input type="Hidden" name="caption" value="">
30  </FORM>

    <form name="Caption" action="caption2.cfm" method="post" enctype="application/x-www-
    form-urlencoded" target="CaptionWin">
        <input type="Hidden" name="caption" value="">
35  </FORM>

    <form name="Comments" action="comment2.cfm" method="post" enctype="application/x-
    www-form-urlencoded" target="CommentWin">
        <input type="Hidden" name="ltime" value="0">
40  <input type="Hidden" name="msg" value="">
    <CFOUTPUT>
        <input type="Hidden" name="Clipsrc" value="#Clipsrc#">
        <input type="Hidden" name="DS" value="#ds#">
    </CFOUTPUT>
45  </FORM>
    </body>
```

&lt;/html&gt;

[illegible]





File: main2.cfm

```
<cfparam name="Channel" default="">
5 <cfparam name="Net" default="">
  <cfparam name="Clipsrc" default="">
  <cfparam name="size" default="">
  <cfparam name="DS" default="Adserver">

10 <script language="JavaScript">
  <!--
  <!-- if (document.images) --->
    self.name = 'showtime';
  //-->
15 </script>
  <!-- frames -->
  <frameset rows="*,0,62" framespacing="0" border="no" frameborder="0" marginwidth="0"
  marginheight="0" bordercolor="white">
    <frameset cols="169,*">
20       <frameset rows="132,90,*">
         <frame name="SponsorWin"
src="sponsor2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&ClipSrc=#Clipsrc#&DS=#
DS#</cfoutput>" framespacing="0" border="0" frameborder="0" marginwidth="0"
marginheight="0" bordercolor="white" scrolling="No" noresize>
25         <frame name="ButtonWin"
src="buttonbar2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=
#Size#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0"
marginwidth="0" marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
         <frame name="LinkListWin"
30 src="linklist2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>" framespacing="0"
border="0" frameborder="0" marginwidth="0" marginheight="0" bordercolor="white"
scrolling="no" noresize frameborder="no">
         </frameset>
         <frame name="StreamWin"
35 src="stream2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=#
Size#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0"
marginwidth="0" marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
         </frameset>
         <frame name="DataWin"
40 src="data2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=#Siz
e#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0" marginwidth="0"
marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
         <frameset cols="*,468">
         <frame name="CommentWin"
45 src="comment2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>"
```

```
framespacing="0" border="0" frameborder="0" marginwidth="0" marginheight="0"
bordercolor="white" scrolling="no" noresize frameborder="no">
    <frame name="BannerWin"
src="banner2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>" framespacing="0"
5 border="0" frameborder="0" marginwidth="0" marginheight="0" bordercolor="white"
scrolling="no" noresize frameborder="no">
    </frameset>

</frameset>
10
```

2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775-2776-2777-2778-2779-2780-2781-2782-2783-2784-2785-2786-2787-2788-2789-2790-2791-2792-2793-2794-2795-2796-2797-2798-2799-2800-2801-2802-2803-2804-2805-2806-2807-2808-2809-2810-2811-2812-2813-2814-2815-2816-2817-2818-2819-2820-2821-2822-2823-2824-2825-2826-2827-2828-2829-2830-2831-2832-2833-2834-2835-2836-2837-2838-2839-2840-2841-2842-2843-2844-2845-2846-2847-2848-2849-2850-2851-2852-2853-2854-2855-2856-2857-2858-2859-2860-2861-2862-2863-2864-2865-2866-2867-2868-2869-2870-2871-2872-2873-2874-2875-2876-2877-2878-2879-2880-2881-2882-2883-2884-2885-2886-2887-2888-2889-2890-2891-2892-2893-2894-2895-2896-2897-2898-2899-2900-2901-2902-2903-2904-2905-2906-2907-2908-2909-2910-2911-2912-2913-2914-2915-2916-2917-2918-2919-2920-2921-2922-2923-2924-2925-2926-2927-2928-2929-2930-2931-2932-2933-2934-2935-2936-2937-2938-2939-2940-2941-2942-2943-2944-2945-2946-2947-2948-2949-2950-2951-2952-2953-2954-2955-2956-2957-2958-2959-2960-2961-2962-2963-2964-2965-2966-2967-2968-2969-2970-2971-2972-2973-2974-2975-2976-2977-2978-2979-2980-2981-2982-2983-2984-2985-2986-2987-2988-2989-2990-2991-2992-2993-2994-2995-2996-2997-2998-2999-3000

File: main3.cfm

```

5  <cfparam name="Channel" default="">
    <cfparam name="Net" default="">
    <cfparam name="Clipsrc" default="">
    <cfparam name="size" default="">
    <cfparam name="DS" default="Adserver">

10  <script language="JavaScript">
    <!--
    <!-- if (document.images) --->
        self.name = 'showtime';
    <!-->

15  </script>
    <!-- frames -->
    <frameset rows="*,62" framespacing="0" border="0" frameborder="0" marginwidth="0"
    marginheight="0" bordercolor="white">
        <frameset cols="169,*,0">

20            <frameset rows="132,130,*">
                <frame name="SponsorWin"
                src="sponsor2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&ClipSrc=#Clipsrc#&DS=#
                DS#</cfoutput>" framespacing="0" border="0" frameborder="0" marginwidth="0"
                marginheight="0" bordercolor="white" scrolling="No" noresize>

25                <frame name="ButtonWin"
                src="buttonbar2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size
                =#Size#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0"
                marginwidth="0" marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
                <frame name="LinkListWin"
                src="linklist2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>" framespacing="0"
                border="0" frameborder="0" marginwidth="0" marginheight="0" bordercolor="white"
                scrolling="no" noresize frameborder="no">

30            </frameset>
            <frame name="StreamWin"
            src="stream3.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=#
            Size#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0"
            marginwidth="0" marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
            <frame name="DataWin"
            src="data2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=#Siz
            e#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0" marginwidth="0"
            marginheight="0" bordercolor="white" scrolling="no" frameborder="no">

40        </frameset>
        <frameset cols="*,468">
            <frame name="CommentWin"
            src="comment2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>"
45
```



File: main4.cfm

```
5  <cfparam name="Channel" default="">
    <cfparam name="Net" default="">
    <cfparam name="Clipsrc" default="">
    <cfparam name="size" default="">
    <cfparam name="DS" default="Adserver">

10  <script language="JavaScript">
    <!--
    <!-- if (document.images) --->
        self.name = 'showtime';
    <!-->

15  </script>
    <!-- frames -->
    <frameset rows="*,62" framespacing="0" border="0" frameborder="0" marginwidth="0"
    marginheight="0" bordercolor="white">
        <frameset cols="169,*,0">

20            <frameset rows="132,130,*">
                <frame name="SponsorWin"
    src="sponsor2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&ClipSrc=#Clipsrc#&DS=#
    DS#</cfoutput>" framespacing="0" border="0" frameborder="0" marginwidth="0"
    marginheight="0" bordercolor="white" scrolling="No" noresize>

25                <frame name="ButtonWin"
    src="buttonbar2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size
    =#Size#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0"
    marginwidth="0" marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
                <frame name="LinkListWin"
    src="linklist2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>" framespacing="0"
    border="0" frameborder="0" marginwidth="0" marginheight="0" bordercolor="white"
    scrolling="no" noresize frameborder="no">
                </frameset>
                <frame name="StreamWin"
    src="stream4.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=#
    Size#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0"
    marginwidth="0" marginheight="0" bordercolor="white" scrolling="no" frameborder="no">
                <frame name="DataWin"
    src="data2.cfm?Channel=<cfoutput>#Channel#&Net=#Net#&Clipsrc=#Clipsrc#&Size=#Siz
    e#&DS=#DS#</cfoutput>" framespacing="0" border="0" frameborder="0" marginwidth="0"
    marginheight="0" bordercolor="white" scrolling="no" frameborder="no">

40            </frameset>
            <frameset cols="*,468">
                <frame name="CommentWin"
    src="comment2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>"
```

```
framespacing="0" border="0" frameborder="0" marginwidth="0" marginheight="0"
bordercolor="white" scrolling="no" noresize frameborder="no">
    <frame name="BannerWin"
src="banner2.cfm?<cfoutput>Clipsrc=#Clipsrc#&DS=#DS#</cfoutput>" framespacing="0"
5 border="0" frameborder="0" marginwidth="0" marginheight="0" bordercolor="white"
scrolling="no" noresize frameborder="no">

    </frameset>
</frameset>
```

10

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File: search.cfm

```
<html>
5  <head>
    <title>Search</title>
    </head>
    <SCRIPT LANGUAGE="JavaScript">
    <!--
10  window.name="OutLinkWin";
    //-->
    </SCRIPT>

    <body onLoad="if (window.focus) self.focus(); else alert('Page Loaded');">
15

    search Window

20  <form>
    <input type="Button" value="Close" onClick="window.close();">
    </form>

25  </body>
    </html>
```



File: selector.cfm

[illegible]

File: sponsor2.cfm

```

5  <cfquery name="GetNet" datasource="TV">
    Select* from NetStns
    Where Call = '#Net#'
    </cfquery>

    <cfquery name="GetChannel" datasource="TV">
10  Select* from NetStns
    Where Call = '#Channel#'
    </cfquery>

    <html>
15  <head>
    <title>sponsor</title>

    </head>
    <SCRIPT LANGUAGE = "JavaScript">
20  <!-- hide this script from old browsers
    LinkWindow="status=no,toolbar=yes,directories=no,menubar=yes,location=yes,scrollbars=y
    es,resizable=yes,HEIGHT=400,WIDTH=600";
    // -->
    function setSponsor(msg1)
25  {
    document.writeln(msg1);
    }
    </script>

30  <body bgcolor="#228B22">
    <!-- sponsor in frame name="SponsorWin" --->
    <table width="169" border="0" cellspacing="0" cellpadding="0" bgcolor="#228B22">
    <tr>
    <td width="30" rowspan="4" bgcolor="#8FBC8F">
35  <IMG align="middle" alt="" border=0 height=132 src="/images/site/sponsor_curve.gif"
    width=30></a>
    </TD>

    <td height="3" bgcolor="#228b22" background="transparent.gif">
40  </td>

    </TR>
    <tr>
    <td>

45  <table width="120" border="0" cellspacing="0" cellpadding="0">
    <tr>
```

```

    <td width="32" height="32">
    <cfif GetNet.recordcount gt 0>
    <cfoutput>
    <a href="http://#GetNet.LinkURL#" target="NetWin"
5  onClick="window.open('','NetWin',LinkWindow);"><IMG align="middle"
    alt="#GetNet.LinkText#" border=0 height=32 src="#getNet.ImageLoc#" width=32></a>
    </cfoutput>
    <cfelse>
    &nbsp;
10  </cfif>
    </td>

    <td>
    <a href="http://ilovetv.ca" target="new"><IMG align="middle" alt="" border=0
15  height=32 src="/images/ads/network/love.jpg" width=32></a>
    </td>
    <td width="32" height="32">
    <cfif GetChannel.recordcount GT 0>
    <cfoutput>
    <a href="http://#GetChannel.LinkURL#" target="NetWin"
20  onClick="window.open('','NetWin',LinkWindow);"><IMG align="middle"
    alt="#GetChannel.LinkText#" border=0 height=32 src="#getChannel.ImageLoc#"
    width=32></a>
    </cfoutput>
    <cfelse>
    &nbsp;
25  </cfif>
    </td>
    </tr>
30  </table>
</td>
</TR>
<tr>
<td width="120" height="90">
35  <CFIF ParameterExists(imgsrc) AND ParameterExists(msg2)>
    <cfoutput>
    <A href="http://#msg2#" target="NetWin"
    onClick="window.open('','NetWin',LinkWindow);"><IMG align="left" alt="#caption#"
    border=0 src="http://#imgsrc#"></a>
40  </cfoutput>
    <CFELSE>
    &nbsp;
    </CFIF>
    </TD>
45  </tr>
</tr>
```

> |

5 &lt;/TABLE&gt;

&lt;/body&gt;

File: stream2.cfm

```

5  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
    <html>
    <head>
        <title>Untitled</title>
    </head>
10  <cfif Trim(Channel) is "or channel is ' ">
    <body bgcolor="#228B22" leftmargin=3 topmargin=3>
    <!--
        <a href="http://home.sol.no/~ggunners/NetBird.html">Net Bird</a>
15      --->
        <br><br><br>
        <table width="80%" align="CENTER" valign="MIDDLE" bgcolor="#F4A460">
        <tr><td>
            <font face="Arial" size="+1" color="Blue">Select a program to view.<br><br>
20      Selections button presents archived shows for this demo.<br><br>
            Channels button presents a channel selector mock-up.<br><br>
            Links button shows all the links from the current program.<br><br>
            Almost everything on the screen is a live link to the internet.
        </td>
25    </tr>
        </table>
        &nbsp; <br>

30    </center>
    </font>

    </body>
    </html>
35  <cfelse>

    <script language="javascript">
40  <!--
    var count = 0;
    var doPolling;
    var Ver4 = parseInt(navigator.appVersion) >= 4;
    var Nav4 = ((navigator.appName == "Netscape") && Ver4);
45  var IE4 = ((navigator.userAgent.indexOf("MSIE") != -1) && Ver4);
```

```
var Messages = "";
var msg="";
var Current_time=0;
//caption
5 var c_msg=";
var c_count=0;
//link
var l_count=0;
var l_msg=";
10 //comment
var m_count=0;
var m_msg=";

var isAppletReady=false;
15 CaptionWin=null;
<CFOUTPUT>
var Net='#Net#';
var Channel='#Channel#';
</CFOUTPUT>
20 // Save window content dimensions to work around resize
// behaviour in WIN32 versions of Navigator 4.
if (Nav4)
{
    var origWidth = window.innerWidth;
    var origheight = window.innerHeight;
25 }

function WinOpen()
{
30     if (CaptionWin == null)
    {
        CaptionWin = window.open("caption2.cfm", "CaptionWin",
"menubar=0,toolbar=0,resizeable=0,width=320,height=180");
        CaptionWin.focus();
35     return false;
    }
    else
    {
        if (CaptionWin.closed == true)
40     {
            CaptionWin = window.open("caption2.cfm", "CaptionWin",
"menubar=0,toolbar=0,resizeable=0,width=320,height=360");
            CaptionWin.focus();
            return false;
45     }
    }
}
```

```
}
// Invoked by <body> tag's onResize event handler to refresh the page for
// Navigator 4 to assist in getting positioned elements back in place.
function RestorePage()
5 {
    if (Nav4)
    {
        if (origWidth != window.innerWidth || origHeight != window.innerHeight)
10         history.go(0);
    }
}

function SendChatMessage(Author, Type, Message)
15 {
    document.applets[0].SendMessage(Author, Type, Message);
}

function SendElapsedTimeToApplet(Time)
20 {
    //var tx=Time/1000;
    //var tx1=Math.floor(tx);
    document.applets[0].SendElapsedTime(Time);
}
25

function HandleSessionMessageEx(Author, Type, Message)
{
    if (IE4)
30 {
        document.forms[0].WhatPosition.value=Message;
    }
    else if (Nav4)
    {
35     document.forms[0].WhatPosition.value=Message;
    }
}

40
function HandleAppletLoad(Message)
{
    isAppletReady=true;
}

45
function HandleElapsedTime(Message)
```

```
{
    if (IE4)
    {
        document.forms[0].WhatPosition.value=Message;
5      }
    else if (Nav4)
    {
        document.forms[0].WhatPosition.value=Message;
10     }
}
function HandleSponsor(Message1,Message2,Message3)
{
15     //Handle the images in the SponsorWin frame
    parent.DataWin.document.Sponsor.imgsrc.value = Message1;
    parent.DataWin.document.Sponsor.msg2.value = Message2;
    parent.DataWin.document.Sponsor.caption.value = Message3;
    parent.DataWin.document.Sponsor.Net.value = Net;
20     parent.DataWin.document.Sponsor.Channel.value = Channel;

    HandleLinks(Message2,Message3,"");

    parent.DataWin.document.Sponsor.submit();
25 }
function HandleLinks(Message1,Message2, Message3)
{
    var Type=Message3;
    if(Type == "old")
30     {
        l_msg="<a href='http://'+Message1+'\" target='NetWin'
onClick=\"window.open(\"',NetWin',LinkWindow)\\\">"+Message2+"</a><br>||"+l_msg;
    }
    else
35     {
        l_msg="<a href='http://'+Message1+'\" target='NetWin'
onClick=\"window.open(\"',NetWin',LinkWindow)\\\">"+Message2+"</a><br>||"+l_msg;
    }

40     l_count++;

    if(l_count >5)
    {
        var last=l_msg.lastIndexOf("||");
45     l_msg = l_msg.substring(0,last);
    }
}
```



```
parent.DataWin.document.Links.msg.value = l_msg;
parent.DataWin.document.Links.submit();

5
}
function HandleAd(Message1,Message2, Message3)
{
    //Handle the images in the SponsorWin frame
10    parent.DataWin.document.Ad.imgsrc.value = Message1;
    parent.DataWin.document.Ad.msg2.value = Message2;
    parent.DataWin.document.Ad.caption.value = Message3;
    HandleLinks(Message2,Message3, "");
    parent.DataWin.document.Ad.submit();
15 }
function HandleCaption(msg)
{
    if(msg != "")
    {
20        if(c_count > 5)
        {
            var last=c_msg.lastIndexOf("||");
            c_msg = c_msg.substring(0,last);
            c_msg=msg+"\r\n||"+c_msg;
25        }
        else
        {
            c_msg=msg+"\r\n||"+c_msg;
        }
30        //Handle the images in the SponsorWin frame
        if(CaptionWin == null || CaptionWin.closed == true)
        {
            }
            else
35            {
                parent.DataWin.document.Caption.caption.value = c_msg;
                parent.DataWin.document.Caption.submit();
            }
40        c_count++;
    }
}

45 function HandleComments(msg)
{
```

```

    if(msg !=")
    {
        if(m_count >5)
        {
            5          var last=m_msg.lastIndexOf("||");
                      m_msg = m_msg.substring(0,last);
                      m_msg=msg+"<BR>||"+m_msg;
        }
        else
        10         {
                    m_msg=msg+"<BR>||"+m_msg;
                }
        parent.DataWin.document.Comments.msg.value = m_msg;
        parent.DataWin.document.Comments.submit();
        15         m_count++;
    }
}

20 function HandleSessionErrorEx(ErrNumber, ErrDescription)
{
    alert(ErrDescription);
}

25 function SendElapsedTime()
{
    if(document.video1.GetPlayState()== 3)
    30     {
        // Make sure that the applet has been loaded
        if(isAppletReady)
        {
            35             var ElpTime=document.video1.GetPosition();
                        if(ElpTime != "")
                        {
                            SendElapsedTimeToApplet(ElpTime);
                            parent.DataWin.document.Comments.ltime.value = ElpTime;
                        }
            40             polling();
        }
        else
        {
            45             alert("The Applet on your browser has not been started. Please refresh
your page");
            stopPolling();
        }
    }
}
```

```
        }
    }
    else
    {
5      doPolling = setTimeout("SendElapsedTime()",500);
    }
}

function stopPolling()
10 {
    clearTimeout(doPolling)
}
function polling()
{
15    doPolling = setTimeout("SendElapsedTime()",1000);
}

//-->
20 </script>

<body bgcolor="#228B22" leftmargin=3 topmargin=3>

<applet id="ChatApplet" width="1" height="1" code="ChatClient.class"
25 codebase="http://blanche.tcn.net:8090/" VIEWASTEXT mayscript>
  <param name="MessageHandler" value="HandleSessionMessageEx">
  <param name="ElapsedTimeMessageHandler" value="HandleElapsedTime">
  <param name="ErrorHandler" value="HandleSessionErrorEx">
  <param name="SponsorHandler" value="HandleSponsor">
30 <param name="LinksHandler" value="HandleLinks">
  <param name="CaptionHandler" value="HandleCaption">
  <param name="AdHandler" value="HandleAd">
  <param name="CommentsHandler" value="HandleComments">
  <param name="CaptionHandler" value="HandleCaption">
35 <param name="ErrorHandler" value="HandleSessionErrorEx">
  <param name="TimeHandler" value="HandleTime">
  <param name="isAppletLoad" value="HandleAppletLoad">

  <CFOUTPUT>
40 <param name="ClipSource" value="#ClipSrc#">
  </CFOUTPUT>
  </applet>
  <script Language="JavaScript">
    polling();
45 </script>
```

```
<table width="100%" border="0" cellspacing="0" cellpadding="0" align="LEFT"
valign="TOP">
<tr>
<td align="left" valign="top">
5      <!-- stream in frame name="streamWin" --->

      <cfparam name="Channel" default="">
      <cfparam name="Net" default="">
      <cfparam name="Clipsrc" default="">
10     <cfparam name="size" default="">

      <cfif Size is 'S'>
          <cfset Width=320>
          <cfset Height=240>
15     <cfelseif Size is 'L'>
          <cfset Width=512>
          <cfset Height=384>
          <cfelseif Size is 'X'>
          <cfset Width=240>
20     <cfset Height=180>
      </cfif>

      <cfif Not ClipSrc is ">
          <cfif ClipSrc is "SunPar3" and Size is "L">
25     <cfset cliploc =
'http://www.broadcast.com/business/sun/98par3challenge_102099_100.ram'>
          <cfelseif ClipSrc is "SunPar3" and Size is "S">
          <cfset cliploc =
'http://www.broadcast.com/business/sun/98par3challenge_102099_56.ram'>
30     <cfelseif ClipSrc is "Live001" and Size is "S">
          <cfset cliploc = '/media/56k/Live001.ram'>

          <cfelseif ClipSrc is "Auction" and Size is "S">
35     <cfset cliploc = '/media/56k/auction.ram'>
          <cfelse>
          <cfif Size is 'S'>
              <cfset cliploc = '/media/56k/#Clipsrc#.ram'>
              <cfelseif Size is 'L'>
40     <cfset cliploc = '/media/108k/#Clipsrc#.ram'>
          <cfelse>
              <cfset cliploc = '/media/#Clipsrc#.ram'>
          </cfif>
          </cfif>
45     </cfif>
</cfif>
```

```
<center>
<cfoutput>
<object
5   ID=video1
   CLASSID="clsid:CFCDA03-8BE4-11cf-B84B-0020AFBBCCFA"
   height=#Height#
   width=#Width#
   >
10   <param name="controls" value="ImageWindow">
   <param NAME="console" VALUE="Clip1">
   <param NAME="autostart" VALUE="true">
   <param NAME="src" VALUE="#Cliploc#">
15   <embed name="video1" SRC="#Cliploc#"
   type="audio/x-pn-realaudio-plugin"
   CONSOLE="Clip1"
   controls="ImageWindow"
   height=#Height#
20   width=#Width#
   AUTOSTART=true>
   </object>

   <BR>
25   <form>
   <input type="Button" name="Play_Button" value="Play"
onClick="document.applets[0].init();document.video1.DoPlay();polling()">
   <input type="Button" name="Pause_Button" value="Pause"
onClick="document.video1.DoPause();stopPolling();">
30   <input type="Button" name="Stop_Button" value="Stop"
onClick="document.video1.DoStop();stopPolling();">
   <!-- <input type="Button" name="position" value="Position"
onClick="javascript:alert(document.video1.GetPosition())">
   <input type="Button" name="buffer" value="Send"
35   onClick="SendMessage('ripu', 'ChatMessage', document.video1.GetPosition())">
   <input type="Text" name="WhatPosition"> --->
   </form>
   </cfoutput>
   </center>
40 </td>
   </tr>
   <tr>
   <td colspan="2">
       <font face="Arial" size="-1">
45       <a
href="caption2.cfm?Channel=<cfoutput>#Channel#</cfoutput>" target="CaptionWin"
```

```
onClick="return(WinOpen())"></a>
</td>
</tr>
5  </table>
</body>
</html>
</cfif>
```

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2163  
2164  
2165  
2166  
2167  
2168  
2169  
2170  
2171  
2172  
2173  
2174  
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2176  
2177  
2178  
2179  
2180  
2181  
2182  
2183  
2184  
2185  
2186  
2187  
2188  
2189  
2190  
2191  
2192  
2193  
2194  
2195  
2196  
2197  
2198  
2199  
2200  
2201  
2202  
2203  
2204  
2205  
2206  
2207  
2208  
2209  
2210  
2211  
2212  
2213  
2214  
2215  
2216  
2217

File: stream3.cfm

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

5  <html>
    <head>
        <title>Untitled</title>
    </head>

10  <cfif Trim(Channel) is "or channel is ' '>
    <body bgcolor="#228B22" leftmargin=3 topmargin=3>

        <a href="http://home.sol.no/~ggunners/NetBird.html">Net Bird</a>

15      <br><br><br>
        <table width="80%" align="CENTER" valign="MIDDLE" bgcolor="#F4A460">
            <tr><td>
                <font face="Arial" size="+1" color="Blue">Select a program to view.<br><br>
                Selections button presents archived shows for this demo.<br><br>
20      Channels button presents a channel selector mock-up.<br><br>
                Links button shows all the links from the current program.<br><br>
                Almost everything on the screen is a live link to the internet.
            </td>
        </tr>
25      </table>
        &nbsp; <br>

        </center>
30      </font>

    </body>
    </html>
    <cfelse>

35

        <script language="javascript">
            <!--
            var count = 0;
40      var doPolling;
            var Ver4 = parseInt(navigator.appVersion) >= 4;
            var Nav4 = ((navigator.appName == "Netscape") && Ver4);
            var IE4 = ((navigator.userAgent.indexOf("MSIE") != -1) && Ver4);

45      var Messages = "";
            var msg="";
```

```
var c_msg="";
var Current_time=-1000;
CaptionWin=null;
var c_count=0;
5 // Save window content dimensions to work around resize
  // behaviour in WIN32 versions of Navigator 4.
  if (Nav4)
  {
10      var origWidth = window.innerWidth;
      var origheight = window.innerHeight;
  }

  // Invoked by <body> tag's onResize event handler to refresh the page for
15 // Navigator 4 to assist in getting positioned elements back in place.
  function RestorePage()
  {
      if (Nav4)
      {
20          if (origWidth != window.innerWidth || origHeight != window.innerHeight)
              history.go(0);
      }
  }

25 function SendChatMessage(Author, Type, Message)
  {
      document.applets[0].SendMessage(Author, Type, Message);
  }

30 function SendElapsedTimeToApplet(Time)
  {
      document.applets[0].SendElapsedTime(Time);
  }

35 function HandleSessionMessageEx(Author, Type, Message)
  {
      if (IE4)
      {
40          document.forms[0].WhatPosition.value=Message;
      }
      else if (Nav4)
      {
45          document.forms[0].WhatPosition.value=Message;
```



```
    }  
}  
  
5  function HandleElapsedTime(Message)  
    {  
        if (IE4)  
        {  
            document.forms[0].WhatPosition.value=Message;  
10     }  
        else if (Nav4)  
        {  
            document.forms[0].WhatPosition.value=Message;  
15     }  
    }  
}  
function HandleSponsor(Message1,Message2,Message3)  
{  
20     //Handle the images in the SponsorWin frame  
    parent.DataWin.document.Sponsor.imgsrc.value = Message1;  
    parent.DataWin.document.Sponsor.msg2.value = Message2;  
    parent.DataWin.document.Sponsor.caption.value = Message2;  
    parent.DataWin.document.Sponsor.submit();  
25 }  
function HandleLinks(Message1,Message2, Message3)  
{  
    var Type=Message3;  
30     if(Type == "old")  
    {  
        msg=msg+"<a href='"+Message1+"' target='NetWin'  
onClick=window.open('','NetWin',LinkWindow);>"+Message2+"</a><br>";  
    }  
35     else  
    {  
        msg="<a href='"+Message1+"' target='NetWin'  
onClick=window.open('','NetWin',LinkWindow);>"+Message2+"</a><br>";  
    }  
40     parent.DataWin.document.Links.msg.value = msg;  
    parent.DataWin.document.Links.submit();  
  
45 }  
function HandleTime(Message)
```

```
{
    Current_time=Message;
}

5 function HandleAd(Message1,Message2, Message3)
{
    //Handle the images in the SponsorWin frame
    parent.DataWin.document.Ad.imgsrc.value = Message1;
    parent.DataWin.document.Ad.msg2.value = Message2;
10    parent.DataWin.document.Ad.caption.value = Message2;
    parent.DataWin.document.Ad.submit();
}
function WinOpen()
{
15    if (CaptionWin == null)
    {
        CaptionWin = window.open("caption2.cfm", "CaptionWin",
"menubar=0,toolbar=0,resizeable=0,width=320,height=360");
        CaptionWin.focus();
20        return false;
    }
    else
    {
        if (CaptionWin.closed == true)
25        {
            CaptionWin = window.open("caption2.cfm", "CaptionWin",
"menubar=0,toolbar=0,resizeable=0,width=320,height=360");
            CaptionWin.focus();
            return false;
30        }
    }
}

function HandleCaption(msg)
35 {
    if(msg != "")
    {
        if(c_count > 5)
        {
40            var first=c_msg.indexOf("||");
            c_msg = c_msg.substring(first+2);
            c_msg=c_msg+"\r\n||"+msg;
        }
        else
45        {
            c_msg=c_msg+"\r\n||"+msg;
        }
    }
}
```

```
    }
    //Handle the images in the SponsorWin frame
    if(CaptionWin == null || CaptionWin.closed == true)
    {
5        }
        else
        {
            parent.DataWin.document.Caption.caption.value = c_msg;
10            parent.DataWin.document.Caption.submit();
        }
        c_count++;
    }
15 }

function HandleComments(Message)
{
    if (IE4)
    {
20        document.forms[0].WhatPosition.value=Message;
    }
    else if (Nav4)
    {
25        document.forms[0].WhatPosition.value=Message;
    }
}

30 function HandleSessionErrorEx(ErrNumber, ErrDescription)
{
    alert(ErrDescription);
}
35

function SendElapsedTime()
{
40        SendElapsedTimeToApplet(Current_time);
        Current_time+=1000;
        polling();
}

45 function stopPolling()
{
```

```
        clearTimeout(doPolling)
    }
    function polling()
    {
5        doPolling = setTimeout("SendElapsedTime()",1000);
    }
    //-->
</script>
10 <CFOUTPUT>
    <body bgcolor="##228B22" leftmargin=3 topmargin=3>
</CFOUTPUT>
15 <applet id="ChatApplet" width="1" height="1" code="ChatClient.class"
    codebase="http://blanche.tcn.net:8090/" VIEWASTEXT mayscript>
    <param name="MessageHandler" value="HandleSessionMessageEx">
    <param name="ElapsedTimeMessageHandler" value="HandleElapsedTime">
    <param name="ErrorHandler" value="HandleSessionErrorEx">
20 <param name="SponsorHandler" value="HandleSponsor">
    <param name="LinksHandler" value="HandleLinks">
    <param name="CaptionHandler" value="HandleCaption">
    <param name="AdHandler" value="HandleAd">
    <param name="CommentsHandler" value="HandleComments">
25 <param name="CaptionHandler" value="HandleCaption">
    <param name="ErrorHandler" value="HandleSessionErrorEx">
    <param name="TimeHandler" value="HandleTime">
    <CFOUTPUT>
    <param name="ClipSource" value="#ClipSrc#">
30 </CFOUTPUT>
    </applet>
    <script Language="JavaScript">
        polling();
        document.applets[0].setStartTime();
35 </script>
    <table width="100%" border="0" cellpadding="0" cellspacing="0" align="LEFT"
        valign="TOP">
        <tr>
        <td align="left" valign="top" width="50%">
40         <BR>
         </center>
        </td>
        </tr>
        <tr>
45 <td colspan="2">
            <font face="Arial" size="-1">
```

10

File: stream4.cfm

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
5  <html>
    <head>
        <title>Untitled</title>
    </head>
10  <cfif Trim(Channel) is "or channel is ' '>
    <body bgcolor="#228B22" leftmargin=3 topmargin=3>

        <a href="http://home.sol.no/~ggunners/NetBird.html">Net Bird</a>
15      <br><br><br>
        <table width="80%" align="CENTER" valign="MIDDLE" bgcolor="#F4A460">
            <tr><td>
                <font face="Arial" size="+1" color="Blue">Select a program to view.<br><br>
20      Selections button presents archived shows for this demo.<br><br>
                Channels button presents a channel selector mock-up.<br><br>
                Links button shows all the links from the current program.<br><br>
                Almost everything on the screen is a live link to the internet.
            </td>
25      </tr>
        </table>
        &nbsp; <br>

30      </center>
        </font>

        </body>
        </html>
35  <cfelse>

        <script language="javascript">
            <!--
40      var count = 0;
            var doPolling;
            var Ver4 = parseInt(navigator.appVersion) >= 4;
            var Nav4 = ((navigator.appName == "Netscape") && Ver4);
            var IE4 = ((navigator.userAgent.indexOf("MSIE") != -1) && Ver4);
45      var Messages = ";
```

```
var msg="";
var c_msg="";
var Current_time=-1000;
CaptionWin=null;
5 // Save window content dimensions to work around resize
  // behaviour in WIN32 versions of Navigator 4.
  if (Nav4)
  {
    var origWidth = window.innerWidth;
10    var origheight = window.innerHeight;
  }

  // Invoked by <body> tag's onResize event handler to refresh the page for
15 // Navigator 4 to assist in getting positioned elements back in place.
  function RestorePage()
  {
    if (Nav4)
    {
20      if (origWidth != window.innerWidth || origHeight != window.innerHeight)
        history.go(0);
    }
  }

25 function SendChatMessage(Author, Type, Message)
  {
    document.applets[0].SendMessage(Author, Type, Message);
  }

30 function SendElapsedTimeToApplet(Time)
  {
    document.applets[0].SendElapsedTime(Time);
  }

35 function HandleSessionMessageEx(Author, Type, Message)
  {
    if (IE4)
40    {
      document.forms[0].WhatPosition.value=Message;
    }
    else if (Nav4)
    {
45    document.forms[0].WhatPosition.value=Message;
```

```
    }  
}  
  
5  function HandleElapsedTime(Message)  
    {  
        if (IE4)  
        {  
            document.forms[0].WhatPosition.value=Message;  
10     }  
        else if (Nav4)  
        {  
            document.forms[0].WhatPosition.value=Message;  
15     }  
    }  
}  
function HandleSponsor(Message1,Message2,Message3)  
{  
20     //Handle the images in the SponsorWin frame  
    parent.DataWin.document.Sponsor.imgsrc.value = Message1;  
    parent.DataWin.document.Sponsor.msg2.value = Message2;  
    parent.DataWin.document.Sponsor.caption.value = Message2;  
    parent.DataWin.document.Sponsor.submit();  
25 }  
function HandleLinks(Message1,Message2, Message3)  
{  
    var Type=Message3;  
30     if(Type == "old")  
    {  
        msg=msg+"<a href='"+Message1+"' target='NetWin'  
onClick=window.open('','NetWin',LinkWindow);>"+Message2+"</a><br>";  
    }  
35     else  
    {  
        msg="<a href='"+Message1+"' target='NetWin'  
onClick=window.open('','NetWin',LinkWindow);>"+Message2+"</a><br>";  
    }  
40     parent.DataWin.document.Links.msg.value = msg;  
    parent.DataWin.document.Links.submit();  
  
45 }  
function HandleTime(Message)
```



```
{
    Current_time=Message;
}

5 function HandleAd(Message1,Message2, Message3)
{
    //Handle the images in the SponsorWin frame
    parent.DataWin.document.Ad.imgsrc.value = Message1;
    parent.DataWin.document.Ad.msg2.value = Message2;
10    parent.DataWin.document.Ad.caption.value = Message2;
    parent.DataWin.document.Ad.submit();
}
function WinOpen()
{
15    if (CaptionWin == null)
    {
        CaptionWin = window.open("caption2.cfm", "CaptionWin",
        "menubar=0,toolbar=0,resizeable=0,width=320,height=360");
        CaptionWin.focus();
20        return false;
    }
    else
    {
        if (CaptionWin.closed == true)
25        {
            CaptionWin = window.open("caption2.cfm", "CaptionWin",
            "menubar=0,toolbar=0,resizeable=0,width=320,height=360");
            CaptionWin.focus();
            return false;
30        }
    }
}

function HandleCaption(msg)
35 {
    c_msg=c_msg+"\r\n"+msg;
    //Handle the images in the SponsorWin frame
    if(CaptionWin == null || CaptionWin.closed == true)
    {
40        }
    else
    {
        parent.DataWin.document.Caption.caption.value = c_msg;
45        parent.DataWin.document.Caption.submit();
    }
}
```

```
    }

    function HandleComments(Message)
    {
5      if (IE4)
        {
          document.forms[0].WhatPosition.value=Message;
        }
        else if (Nav4)
10       {
          document.forms[0].WhatPosition.value=Message;
        }
    }

15 }

    function HandleSessionErrorEx(ErrNumber, ErrDescription)
    {
20       alert(ErrDescription);
    }

    function SendElapsedTime()
25     {

        SendElapsedTimeToApplet(Current_time);
        Current_time+=1000;
        polling();
30     }

    function stopPolling()
    {
        clearTimeout(doPolling)
35     }
    function polling()
    {

        doPolling = setTimeout("SendElapsedTime()",1000);
40     }
    //-->
    </script>

    <CFOUTPUT>
45   <body bgcolor="##228B22" leftmargin=3 topmargin=3>
    </CFOUTPUT>
```

```
<applet id="ChatApplet" width="1" height="1" code="LiveChatClient.class"
codebase="http://blanche.tcn.net:8090/" VIEWASTEXT mayscript>
<param name="MessageHandler" value="HandleSessionMessageEx">
5 <param name="ElapsedTimeMessageHandler" value="HandleElapsedTime">
  <param name="ErrorHandler" value="HandleSessionErrorEx">
  <param name="SponsorHandler" value="HandleSponsor">
  <param name="LinksHandler" value="HandleLinks">
  <param name="CaptionHandler" value="HandleCaption">
10 <param name="AdHandler" value="HandleAd">
  <param name="CommentsHandler" value="HandleComments">
  <param name="CaptionHandler" value="HandleCaption">
  <param name="ErrorHandler" value="HandleSessionErrorEx">
  <param name="TimeHandler" value="HandleTime">
15 <CFOUTPUT>
  <param name="ClipSource" value="#ClipSrc#">
</CFOUTPUT>
</applet>
<script Language="JavaScript">
20 polling();
  document.applets[0].getCurrentPlayTime();
</script>
  <table width="100%" border="0" cellspacing="0" cellpadding="0" align="LEFT"
  valign="TOP">
25 <tr>
  <td align="left" valign="top">
    <!-- stream in frame name="streamWin" --->

    <cfparam name="Channel" default="">
30 <cfparam name="Net" default="">
    <cfparam name="Clipsrc" default="">
    <cfparam name="size" default="">

    <cfif Size is 'S'>
35 <cfset Width=160>
    <cfset Height=120>
    <cfelseif Size is 'L'>
    <cfset Width=512>
    <cfset Height=384>
40 </cfif>

    <cfif Not Clipsrc is ">
    <cfif ClipSrc is "SunPar3" and Size is "L">
    <cfset cliploc =
45 'http://www.broadcast.com/business/sun/98par3challenge_102099_100.ram'>
    <cfelseif ClipSrc is "SunPar3" and Size is "S">
```

```

        <cfset cliploc =
'http://www.broadcast.com/business/sun/98par3challenge_102099_56.ram'>
        <cfelse>
            <cfif Size is 'S'>
5              <cfset cliploc = '/media/56k/#Clipsrc#.ram'>
            <cfelse>
                <cfset cliploc = '/media/#Clipsrc#.ram'>
            </cfif>
        </cfif>
10    </cfif>

    <center>
    <cfoutput>
15    <object
        ID=video1
        CLASSID="clsid:CFCDA03-8BE4-11cf-B84B-0020AFBBCCFA"
        height=#Height#
        width=#Width#
20    >

        <param name="controls" value="ImageWindow">
        <param NAME="console" VALUE="Clip1">
        <param NAME="autostart" VALUE="true">
25    <param NAME="src" VALUE="#Cliploc#"
        <embed name="video1" SRC="#Cliploc#"
            type="audio/x-pn-realaudio-plugin"
            CONSOLE="Clip1"
            controls="ImageWindow"
30    height=#Height#
            width=#Width#
            AUTOSTART=true>
        </object>

35    <BR>
        <form>
            <input type="Button" name="Play_Button" value="Play"
onClick="document.applets[0].init();document.applets[0].getCurrentPlayTime();document.vi
deo1.DoPlay();polling()">
40    <input type="Button" name="Pause_Button" value="Pause"
onClick="document.video1.DoPause();stopPolling();">
            <input type="Button" name="Stop_Button" value="Stop"
onClick="document.video1.DoStop();stopPolling()">
            <!-- <input type="Button" name="position" value="Position"
45    onClick="javascript:alert(document.video1.GetPosition())">

```

```

        <input type="Button" name="buffer" value="Send"
onClick="SendMessage('ripu', 'ChatMessage', document.video1.GetPosition())">
        <input type="Text" name="WhatPosition"> --->
        </form>
5      </cfoutput>
      </center>
    </td>
  </tr>
  <tr>
10  <td colspan="2">
        <font face="Arial" size="-1">
          <a
href="caption2.cfm?Channel=<cfoutput>#Channel#</cfoutput>" target="CaptionWin"
onClick="return(WinOpen())">CC</a>
15  </td>
    </tr>
  </table>
</body>
</html>
20 </cfif>

<!-- <table width="100%" border="0" cellspacing="0" cellpadding="0" align="LEFT"
valign="TOP">
25 <tr>
  <td align="left" valign="top" width="50%">
    <BR>
    </center>
  </td>
30 </tr>
  <tr>
    <td colspan="2">
        <font face="Arial" size="-1">
          <a
35 href="caption2.cfm?Channel=<cfoutput>#Channel#</cfoutput>" target="CaptionWin"
onClick="return(WinOpen())">CC</a>
    </td>
  </tr>
</table>
40 </body>
</html>
</cfif> --->
```

File: thankyou.cfm

```
5      <cfquery name="getcomments"
        datasource="VBICContent"
        username="caption"
        password="trewq55">

10      select comment from ctlfile
        where clipsource = '#clipsrc#'
        and Type = 'C'
        and seconds > #Evaluate(LTime -10)#
        and seconds < #Evaluate(LTime +10)#
        order by seconds

15      </cfquery>

      <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

20      <html>
      <head>
        <title>Thank You</title>
      </head>

25      <body>
        <font face="Arial" color = "cadetblue" size="-1">Thank you for your comment. Here are the
        comments around yours:
        <font color="crimson">
30      <br>
        <cfoutput query="GetComments">
        #comment#<br>
        </cfoutput></font>
        </font>

35      <form>
        <input type="Button" value="Close" onClick="window.close();">
        </form>
        </body>
        </html>

40
```

## Appendix D

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5

### Cold Fusion

#### TESsocket

10

File: captionsock.c

#include <stdio.h>

#include <sys/types.h>

15 #include <sys/socket.h>

#include <netinet/in.h>

#include <netdb.h>

#include <fcntl.h>

#include <errno.h>

20

#define EOCAP (buf[0]==0x01 || buf[0]==0x02 || buf[0]==0x11 || buf[0]==0x12)

#define LOG(X) {fprintf(fp,"n%s",X); fflush(fp);}

#define DEBUG 0

25

#define captionsock 9000

#define IPTES3 "206.221.245.75"

FILE \*fp;

30

#define stderr fp

static parse();

int argc;

35

char \*\*argv;

int state;

char outstr[10000];

int sock\_desc;

/\* Socket descriptor \*/

struct sockaddr\_in sa;

/\* Internet Socket addr. struct \*/

40

struct hostent \*hp;

/\* Result of host name lookup \*/

struct servent \*sp;

/\* Result of service lookup \*/

int len,seq,i,flags=0;

char seq\_str[30];

char rep\_type;

45

char query\_str[90000];

FILE \*fp\_head,\*fp\_list,\*fp\_tail;

```
char ch;
char ARGV[26][9000];
int ARGV;

5  int bargc;
    char *bargv[20],*cp;

    char myname[] = "captionsock";          /* this program name */

10  int inc;
    char junk[9000];
    char buf[9000];

15  /* all remaining test passed to program is then passed
    directly to upstream */

    int count;
    int lenr,res;
20  char blank[]="";

    #define MAXHOSTNAME 32
    #define BUFSIZE 9000
25  int
    main ( )
    {

    char sendbuff[300]; /* due to captioning data size limitations,
30                          this should be more than enough */

    int buffin;
    char *buffpnt;
    int firsttime=1;
    char field[2];
35  char outb[1000];
    char systemstring[200];

    char localhost[32];

40  fp=fopen("/tmp/captionlog","w");
    /* caption log stores raw data!!! */

    /******
    /******
45  gethostname(localhost, MAXHOSTNAME);
```



```
if((hp = gethostbyname(localhost)) == NULL) {
    fprintf(stderr,"no such host?\n");
    exit(0);
5  }

    sa.sin_port = htons(captionsock);
    bcopy((char *)hp->h_addr, (char *)&sa.sin_addr, hp->h_length);
    sa.sin_family = hp->h_addrtype;
10  inet_aton(IPTES3,&sa.sin_addr);
    /* IP of TES3!! */

    if((sock_desc=socket(hp->h_addrtype,SOCK_STREAM,0)) < 0) {
        perror("socket");
        exit(0);
15  }

    LOG("CONNECT SOCKET");
20  if(connect(sock_desc,&sa,(int)(sizeof sa)) < 0) {
        perror("connect");
        exit(0);
    }

25  LOG("READ");
    /* send these lines off to mysql as they come in */
    /* insert into record incrementing table, with time stamp on creation */
    /* perl program will collect together fragmented time stamped data,
       and join to completed objects ... then on from there*/
30  /* TOKENS at this time are 0x01 0x02 0x11 0x12 0x0a */

    field[1]='\0';

35  buffpnt=sendbuff;

    /* on first in, discard everything up to first valid TOKEN */

    for (;;) {
40  len = read(sock_desc,buf,1);
        buf[len]='\0';
        buf[0]=buf[0]&0x7f; /* mask of high bit */
        /* DEBUG: printf("%s",buf); */

45  if( len > 0 )
        {
```

```
if( EOCAP )
{
    *buffpnt='\0';
    if( firsttime ) { firsttime=0; buffpnt=sendbuff;}
5    else
    {
        /* set up shell cmd line to insert to mysql!! */
        systemstring[0]='\0';
        strcat(systemstring,"echo 'insert into raw (str2,stamped) values (\");
10        strcat(systemstring, field);

        /* loop over data and make comma delimited*/
        strcat(systemstring, " ");

15        for(i=0; i<strlen(sendbuff); i++)
        {
            sprintf(outb,"%d",(int)sendbuff[i]);
            strcat(systemstring, outb);
            strcat(systemstring, ",");
20        }

        /* echo 'insert into raw (str2,stamped) values ("2 34,23,"now()') | /usr/www/local/mysql-
        3.22.27/bin/mysql caption */

25    /* strcat(systemstring, "\",now()') >> /tmp/yyyy");    */

        strcat(systemstring, "\",now()') | /usr/www/local/mysql-3.22.27/bin/mysql
caption");
30

    /* comment out logic below to send data if also blank */
    if( strlen(sendbuff) > 0 )
        system(systemstring);

35    buffpnt=sendbuff;
} /* end else */

switch ((char)(buf[0]))
40 {
    case 0x01: field[0]='1'; break;
    case 0x02: field[0]='2'; break;
    case 0x11: field[0]='1'; break;
    case 0x12: field[0]='2'; break;
45    default: exit(0); break;
}
```

```

    } /* end if EOCAP */
else /* not end of caption char */
{
    /* if(buf[0]==0x0a ) { buf[0]=0xff; exit(0); } */
5      *(buffpnt)=buf[0]; buffpnt++;
    LOG(buf);
}

} /* end len > 0 */
10
    /* SYSTEM shell call - although inefficent right know, this still can write over 100 sub
string events to the DB
per second, far beyond what we need!!! */

15      /* system("date >> /tmp/yy"); */
    }

/* NOTE: 01 02 11 12 (hex) 01 02 start of data 11 12 no data
0x0a just means nothing ? */
20

}
```

File: cgic.c

```

5  #if CGICDEBUG
    #define CGICDEBUGSTART \
        {\
            FILE *dout; \
            dout = fopen("/home/boutell/public_html/debug", "a"); \

10  #define CGICDEBUGEND \
        fclose(dout); \
    }
    #else /* CGICDEBUG */
    #define CGICDEBUGSTART
15  #define CGICDEBUGEND
    #endif /* CGICDEBUG */

    #include <stdio.h>
    #include <string.h>
20  #include <ctype.h>
    #include <stdlib.h>
    #ifndef NO_UNISTD
    #include <unistd.h>
    #endif /* NO_UNISTD */
25  #include "/usr/local/cgic103/cgic.h"

    #define cgiStrEq(a, b) (!strcmp((a), (b)))

    char *cgiServerSoftware;
30  char *cgiServerName;
    char *cgiGatewayInterface;
    char *cgiServerProtocol;
    char *cgiServerPort;
    char *cgiRequestMethod;
35  char *cgiPathInfo;
    char *cgiPathTranslated;
    char *cgiScriptName;
    char *cgiQueryString;
    char *cgiRemoteHost;
40  char *cgiRemoteAddr;
    char *cgiAuthType;
    char *cgiRemoteUser;
    char *cgiRemoteIdent;
    char *cgiContentType;
45  int cgiContentLength;
    char *cgiAccept;
```

```
char *cgiUserAgent;

FILE *cgiIn;
FILE *cgiOut;
5  /* One form entry, consisting of an attribute-value pair. */

typedef struct cgiFormEntryStruct {
    char *attr;
10    char *value;
    struct cgiFormEntryStruct *next;
} cgiFormEntry;

/* The first form entry. */
15 static cgiFormEntry *cgiFormEntryFirst;

/* True if CGI environment was restored from a file. */
static int cgiRestored = 0;

20 static void cgiGetenv(char **s, char *var);

typedef enum {
    cgiParseSuccess,
    cgiParseMemory,
25    cgiParseIO
} cgiParseResultType;

static cgiParseResultType cgiParseGetFormInput();
static cgiParseResultType cgiParsePostFormInput();
30 static cgiParseResultType cgiParseFormInput(char *data, int length);
static void cgiSetupConstants();
static void cgiFreeResources();
static int cgiStrEqNc(char *s1, char *s2);

35 int main(int argc, char *argv[]) {
    int result;
    char *cgiContentLengthString;
    cgiSetupConstants();
    cgiGetenv(&cgiServerSoftware, "SERVER_SOFTWARE");
40    cgiGetenv(&cgiServerName, "SERVER_NAME");
    cgiGetenv(&cgiGatewayInterface, "GATEWAY_INTERFACE");
    cgiGetenv(&cgiServerProtocol, "SERVER_PROTOCOL");
    cgiGetenv(&cgiServerPort, "SERVER_PORT");
    cgiGetenv(&cgiRequestMethod, "REQUEST_METHOD");
45    cgiGetenv(&cgiPathInfo, "PATH_INFO");
    cgiGetenv(&cgiPathTranslated, "PATH_TRANSLATED");
```

```

    cgiGetenv(&cgiScriptName, "SCRIPT_NAME");
    cgiGetenv(&cgiQueryString, "QUERY_STRING");
    cgiGetenv(&cgiRemoteHost, "REMOTE_HOST");
    cgiGetenv(&cgiRemoteAddr, "REMOTE_ADDR");
5    cgiGetenv(&cgiAuthType, "AUTH_TYPE");
    cgiGetenv(&cgiRemoteUser, "REMOTE_USER");
    cgiGetenv(&cgiRemoteIdent, "REMOTE_IDENT");
    cgiGetenv(&cgiContentType, "CONTENT_TYPE");
    cgiGetenv(&cgiContentLengthString, "CONTENT_LENGTH");
10    cgiContentLength = atoi(cgiContentLengthString);
    cgiGetenv(&cgiAccept, "HTTP_ACCEPT");
    cgiGetenv(&cgiUserAgent, "HTTP_USER_AGENT");
#ifdef CGICDEBUG
    CGICDEBUGSTART
15    fprintf(dout, "%d\n", cgiContentLength);
    fprintf(dout, "%s\n", cgiRequestMethod);
    fprintf(dout, "%s\n", cgiContentType);
    CGICDEBUGEND
#endif /* CGICDEBUG */
20    cgiFormEntryFirst = 0;
    cgiIn = stdin;
    cgiOut = stdout;
    cgiRestored = 0;

25    /* These five lines keep compilers from
        producing warnings that argc and argv
        are unused. They have no actual function. */
    if (argc) {
30        if (argv[0]) {
            cgiRestored = 0;
        }
    }

35    if (cgiStrEqNc(cgiRequestMethod, "post")) {
#ifdef CGICDEBUG
        CGICDEBUGSTART
        fprintf(dout, "POST recognized\n");
40        CGICDEBUGEND
#endif /* CGICDEBUG */
        if (cgiStrEqNc(cgiContentType, "application/x-www-form-urlencoded")) {

#ifdef CGICDEBUG
45        CGICDEBUGSTART
            fprintf(dout, "Calling PostFormInput\n");

```

```

                                CGICDEBUGEND
#endif /* CGICDEBUG */
                                if (cgiParsePostFormInput() != cgiParseSuccess) {
#ifdef CGICDEBUG
5                                CGICDEBUGSTART
                                fprintf(dout, "PostFormInput failed\n");
                                CGICDEBUGEND
#endif /* CGICDEBUG */
                                cgiFreeResources();
10                                return -1;
                                }
#ifdef CGICDEBUG
                                CGICDEBUGSTART
                                fprintf(dout, "PostFormInput succeeded\n");
15                                CGICDEBUGEND
#endif /* CGICDEBUG */
                                }
                                } else if (cgiStrEqNc(cgiRequestMethod, "get")) {
                                /* The spec says this should be taken care of by
20                                the server, but... it isn't */
                                cgiContentLength = strlen(cgiQueryString);
                                if (cgiParseGetFormInput() != cgiParseSuccess) {
#ifdef CGICDEBUG
                                CGICDEBUGSTART
25                                fprintf(dout, "GetFormInput failed\n");
                                CGICDEBUGEND
#endif /* CGICDEBUG */
                                cgiFreeResources();
                                return -1;
30                                } else {
#ifdef CGICDEBUG
                                CGICDEBUGSTART
                                fprintf(dout, "GetFormInput succeeded\n");
                                CGICDEBUGEND
35                                #endif /* CGICDEBUG */
                                }
                                }
                                result = cgiMain();
                                cgiFreeResources();
40
                                /* The following two lines allegedly produce better behavior
                                when run with the CERN server on some platforms.
                                Remove them and experiment if you wish. */
                                fflush(stdout);
45                                sleep(1);
                                return result;
```

```

    }

    static void cgiGetenv(char **s, char *var){
        *s = getenv(var);
5        if (!(*s)) {
            *s = "";
        }
    }

10    static cgiParseResultType cgiParsePostFormInput() {
        char *input;
        cgiParseResultType result;
        if (!cgiContentLength) {
            return cgiParseSuccess;
15        }
        input = (char *) malloc(cgiContentLength);
        if (!input) {
            return cgiParseMemory;
        }
20        if (fread(input, 1, cgiContentLength, cgiIn) != cgiContentLength) {
            return cgiParseIO;
        }
        result = cgiParseFormInput(input, cgiContentLength);
        free(input);
25        return result;
    }

    static cgiParseResultType cgiParseGetFormInput() {
        return cgiParseFormInput(cgiQueryString, cgiContentLength);
30    }

    typedef enum {
        cgiEscapeRest,
        cgiEscapeFirst,
35        cgiEscapeSecond
    } cgiEscapeState;

    typedef enum {
        cgiUnescapeSuccess,
40        cgiUnescapeMemory
    } cgiUnescapeResultType;

    static cgiUnescapeResultType cgiUnescapeChars(char **sp, char *cp, int len);

45    static cgiParseResultType cgiParseFormInput(char *data, int length) {
        /* Scan for pairs, unescaping and storing them as they are found. */

```



```
int pos = 0;
cgiFormEntry *n;
cgiFormEntry *l = 0;
while (pos != length) {
5       int foundEq = 0;
        int foundAmp = 0;
        int start = pos;
        int len = 0;
        char *attr;
10       char *value;
        while (pos != length) {
            if (data[pos] == '=') {
                foundEq = 1;
                pos++;
                break;
15         }
            pos++;
            len++;
        }
        if (!foundEq) {
20         break;
        }
        if (cgiUnescapeChars(&attr, data+start, len)
            != cgiUnescapeSuccess) {
25         return cgiParseMemory;
        }
        start = pos;
        len = 0;
        while (pos != length) {
30         if (data[pos] == '&') {
            foundAmp = 1;
            pos++;
            break;
        }
        pos++;
35         len++;
    }
    /* The last pair probably won't be followed by a &, but
       that's fine, so check for that after accepting it */
40     if (cgiUnescapeChars(&value, data+start, len)
        != cgiUnescapeSuccess) {
        return cgiParseMemory;
    }
    /* OK, we have a new pair, add it to the list. */
45     n = (cgiFormEntry *) malloc(sizeof(cgiFormEntry));
    if (!n) {
```

```

        return cgiParseMemory;
    }
    n->attr = attr;
    n->value = value;
5    n->next = 0;
    if (!l) {
        cgiFormEntryFirst = n;
    } else {
        l->next = n;
10    }
    l = n;
    if (!foundAmp) {
        break;
    }
15    }
    return cgiParseSuccess;
}

static int cgiHexValue[256];
20
cgiUnescapeResultType cgiUnescapeChars(char **sp, char *cp, int len) {
    char *s;
    cgiEscapeState escapeState = cgiEscapeRest;
    int escapedValue = 0;
25    int srcPos = 0;
    int dstPos = 0;
    s = (char *) malloc(len + 1);
    if (!s) {
        return cgiUnescapeMemory;
30    }
    while (srcPos < len) {
        int ch = cp[srcPos];
        switch (escapeState) {
            case cgiEscapeRest:
35                if (ch == '%') {
                    escapeState = cgiEscapeFirst;
                } else if (ch == '+') {
                    s[dstPos++] = ' ';
                } else {
40                    s[dstPos++] = ch;
                }
                break;
            case cgiEscapeFirst:
                escapedValue = cgiHexValue[ch] << 4;
45                escapeState = cgiEscapeSecond;
                break;
        }
    }
}
```

```

        case cgiEscapeSecond:
            escapedValue += cgiHexValue[ch];
            s[dstPos++] = escapedValue;
            escapeState = cgiEscapeRest;
5             break;
        }
        srcPos++;
    }
    s[dstPos] = '\0';
10    *sp = s;
    return cgiUnescapeSuccess;
}

static void cgiSetupConstants() {
15    int i;
    for (i=0; (i < 256); i++) {
        cgiHexValue[i] = 0;
    }
    cgiHexValue['0'] = 0;
20    cgiHexValue['1'] = 1;
    cgiHexValue['2'] = 2;
    cgiHexValue['3'] = 3;
    cgiHexValue['4'] = 4;
    cgiHexValue['5'] = 5;
25    cgiHexValue['6'] = 6;
    cgiHexValue['7'] = 7;
    cgiHexValue['8'] = 8;
    cgiHexValue['9'] = 9;
    cgiHexValue['A'] = 10;
30    cgiHexValue['B'] = 11;
    cgiHexValue['C'] = 12;
    cgiHexValue['D'] = 13;
    cgiHexValue['E'] = 14;
    cgiHexValue['F'] = 15;
35    cgiHexValue['a'] = 10;
    cgiHexValue['b'] = 11;
    cgiHexValue['c'] = 12;
    cgiHexValue['d'] = 13;
    cgiHexValue['e'] = 14;
40    cgiHexValue['f'] = 15;
}

static void cgiFreeResources() {
    cgiFormEntry *c = cgiFormEntryFirst;
45    cgiFormEntry *n;
    while (c) {
```

```

        n = c->next;
        free(c->attr);
        free(c->value);
        free(c);
5      c = n;
    }
    /* If the cgi environment was restored from a saved environment,
       then these are in allocated space and must also be freed */
    if (cgiRestored) {
10      free(cgiServerSoftware);
        free(cgiServerName);
        free(cgiGatewayInterface);
        free(cgiServerProtocol);
        free(cgiServerPort);
15      free(cgiRequestMethod);
        free(cgiPathInfo);
        free(cgiPathTranslated);
        free(cgiScriptName);
        free(cgiQueryString);
20      free(cgiRemoteHost);
        free(cgiRemoteAddr);
        free(cgiAuthType);
        free(cgiRemoteUser);
        free(cgiRemoteIdent);
25      free(cgiContentType);
        free(cgiAccept);
        free(cgiUserAgent);
    }
    }
30
    static cgiFormResultType cgiFormEntryString(
        cgiFormEntry *e, char *result, int max, int newlines);

    static cgiFormEntry *cgiFormEntryFindFirst(char *name);
35    static cgiFormEntry *cgiFormEntryFindNext();

    cgiFormResultType cgiFormString(
        char *name, char *result, int max) {
        cgiFormEntry *e;
40      e = cgiFormEntryFindFirst(name);
        if (!e) {
            strcpy(result, "");
            return cgiFormNotFound;
        }
45      return cgiFormEntryString(e, result, max, 1);
    }
}
```

```
cgiFormResultType cgiFormStringNoNewlines(
    char *name, char *result, int max) {
    cgiFormEntry *e;
5     e = cgiFormEntryFindFirst(name);
    if (!e) {
        strcpy(result, "");
        return cgiFormNotFound;
    }
10    return cgiFormEntryString(e, result, max, 0);
}

cgiFormResultType cgiFormStringMultiple(
    char *name, char ***result) {
15    char **stringArray;
    cgiFormEntry *e;
    int i;
    int total = 0;
    /* Make two passes. One would be more efficient, but this
20    function is not commonly used. The select menu and
    radio box functions are faster. */
    e = cgiFormEntryFindFirst(name);
    if (e != 0) {
        do {
25            total++;
        } while ((e = cgiFormEntryFindNext()) != 0);
    }
    stringArray = (char **) malloc(sizeof(char *) * (total + 1));
    if (!stringArray) {
30        *result = 0;
        return cgiFormMemory;
    }
    /* initialize all entries to null; the last will stay that way */
    for (i=0; (i <= total); i++) {
35        stringArray[i] = 0;
    }
    /* Now go get the entries */
    e = cgiFormEntryFindFirst(name);
#ifdef CGICDEBUG
40    CGICDEBUGSTART
    fprintf(dout, "StringMultiple Beginning\n");
    CGICDEBUGEND
#endif /* CGICDEBUG */
    if (e) {
45        i = 0;
        do {
```

```

    int max = strlen(e->value) + 1;
    stringArray[i] = (char *) malloc(max);
    if (stringArray[i] == 0) {
        /* Memory problems */
5       cgiStringArrayFree(stringArray);
        *result = 0;
        return cgiFormMemory;
    }
    strcpy(stringArray[i], e->value);
10    cgiFormEntryString(e, stringArray[i], max, 1);
    i++;
    } while ((e = cgiFormEntryFindNext()) != 0);
    *result = stringArray;
#ifdef CGICDEBUG
15    CGICDEBUGSTART
    fprintf(dout, "StringMultiple Succeeding\n");
    CGICDEBUGEND
#endif /* CGICDEBUG */
    return cgiFormSuccess;
20    } else {
        *result = stringArray;
#ifdef CGICDEBUG
    CGICDEBUGSTART
    fprintf(dout, "StringMultiple found nothing\n");
25    CGICDEBUGEND
#endif /* CGICDEBUG */
    return cgiFormNotFound;
    }
}

30
cgiFormResultType cgiFormStringSpaceNeeded(
    char *name, int *result) {
    cgiFormEntry *e;
    e = cgiFormEntryFindFirst(name);
35    if (!e) {
        *result = 1;
        return cgiFormNotFound;
    }
    *result = strlen(e->value) + 1;
40    return cgiFormSuccess;
}

static cgiFormResultType cgiFormEntryString(
45    cgiFormEntry *e, char *result, int max, int newlines) {
    char *dp, *sp;
    int truncated = 0;
```

```
int len = 0;
int avail = max-1;
int crCount = 0;
int lfCount = 0;
5  dp = result;
   sp = e->value;
   while (1) {
       int ch;
       ch = *sp;
10      if (len == avail) {
           truncated = 1;
           break;
       }
       /* Fix the CR/LF, LF, CR nightmare: watch for
15      consecutive bursts of CRs and LFs in whatever
       pattern, then actually output the larger number
       of LFs. Consistently sane, yet it still allows
       consecutive blank lines when the user
       actually intends them. */
20      if ((ch == 13) || (ch == 10)) {
           if (ch == 13) {
               crCount++;
           } else {
               lfCount++;
           }
25      } else {
           if (crCount || lfCount) {
               int lfsAdd = crCount;
               if (lfCount > crCount) {
30                 lfsAdd = lfCount;
               }
               /* Stomp all newlines if desired */
               if (!newlines) {
                   lfsAdd = 0;
35                 }
               while (lfsAdd) {
                   if (len == avail) {
                       truncated = 1;
                       break;
40                   }
                   *dp = 10;
                   dp++;
                   lfsAdd--;
                   len++;
45                 }
               crCount = 0;
           }
       }
   }
```

```

        ifCount = 0;
    }
    if (ch == '\0') {
        /* The end of the source string */
5       break;
    }
    *dp = ch;
    dp++;
    len++;
10    }
    sp++;
}
*dp = '\0';
if (truncated) {
15    return cgiFormTruncated;
} else if (!len) {
    return cgiFormEmpty;
} else {
    return cgiFormSuccess;
20 }
}
```

```
static int cgiFirstNonspaceChar(char *s);
```

```

25  cgiFormResultType cgiFormInteger(
    char *name, int *result, int defaultV) {
    cgiFormEntry *e;
    int ch;
    e = cgiFormEntryFindFirst(name);
30    if (!e) {
        *result = defaultV;
        return cgiFormNotFound;
    }
    if (!strlen(e->value)) {
35        *result = defaultV;
        return cgiFormEmpty;
    }
    ch = cgiFirstNonspaceChar(e->value);
    if (!(isdigit(ch)) && (ch != '-') && (ch != '+')) {
40        *result = defaultV;
        return cgiFormBadType;
    } else {
        *result = atoi(e->value);
        return cgiFormSuccess;
45    }
}
```



```
cgiFormResultType cgiFormIntegerBounded(
    char *name, int *result, int min, int max, int defaultV) {
    cgiFormResultType error = cgiFormInteger(name, result, defaultV);
5    if (error != cgiFormSuccess) {
        return error;
    }
    if (*result < min) {
        *result = min;
10    return cgiFormConstrained;
    }
    if (*result > max) {
        *result = max;
        return cgiFormConstrained;
15    }
    return cgiFormSuccess;
}

cgiFormResultType cgiFormDouble(
20    char *name, double *result, double defaultV) {
    cgiFormEntry *e;
    int ch;
    e = cgiFormEntryFindFirst(name);
    if (!e) {
25        *result = defaultV;
        return cgiFormNotFound;
    }
    if (!strlen(e->value)) {
        *result = defaultV;
30    return cgiFormEmpty;
    }
    ch = cgiFirstNonspaceChar(e->value);
    if (!(isdigit(ch) && (ch != '-') && (ch != '+')) {
        *result = defaultV;
35    return cgiFormBadType;
    } else {
        *result = atof(e->value);
        return cgiFormSuccess;
    }
40 }

cgiFormResultType cgiFormDoubleBounded(
    char *name, double *result, double min, double max, double defaultV) {
    cgiFormResultType error = cgiFormDouble(name, result, defaultV);
45    if (error != cgiFormSuccess) {
        return error;
    }
}
```

```

    }
    if (*result < min) {
        *result = min;
        return cgiFormConstrained;
5    }
    if (*result > max) {
        *result = max;
        return cgiFormConstrained;
    }
10    return cgiFormSuccess;
}

cgiFormResultType cgiFormSelectSingle(
    char *name, char **choicesText, int choicesTotal,
15    int *result, int defaultV)
{
    cgiFormEntry *e;
    int i;
    e = cgiFormEntryFindFirst(name);
20    #ifdef CGICDEBUG
        CGICDEBUGSTART
        fprintf(dout, "%d\n", (int) e);
        CGICDEBUGEND
    #endif /* CGICDEBUG */
25    if (!e) {
        *result = defaultV;
        return cgiFormNotFound;
    }
    for (i=0; (i < choicesTotal); i++) {
30    #ifdef CGICDEBUG
        CGICDEBUGSTART
        fprintf(dout, "%s %s\n", choicesText[i], e->value);
        CGICDEBUGEND
    #endif /* CGICDEBUG */
35    if (cgiStrEq(choicesText[i], e->value)) {
        #ifdef CGICDEBUG
            CGICDEBUGSTART
            fprintf(dout, "MATCH\n");
            CGICDEBUGEND
40        #endif /* CGICDEBUG */
            *result = i;
            return cgiFormSuccess;
        }
    }
45    *result = defaultV;
    return cgiFormNoSuchChoice;
}
```

```

    }

cgiFormResultType cgiFormSelectMultiple(
    char *name, char **choicesText, int choicesTotal,
5    int *result, int *invalid)
{
    cgiFormEntry *e;
    int i;
    int hits = 0;
    int invalidE = 0;
10    for (i=0; (i < choicesTotal); i++) {
        result[i] = 0;
    }
    e = cgiFormEntryFindFirst(name);
15    if (!e) {
        *invalid = invalidE;
        return cgiFormNotFound;
    }
    do {
20        int hit = 0;
        for (i=0; (i < choicesTotal); i++) {
            if (cgiStrEq(choicesText[i], e->value)) {
                result[i] = 1;
                hits++;
                hit = 1;
                break;
25            }
        }
        if (!(hit)) {
30            invalidE++;
        }
    } while ((e = cgiFormEntryFindNext()) != 0);

    *invalid = invalidE;
35    if (hits) {
        return cgiFormSuccess;
    } else {
        return cgiFormNotFound;
40    }
}

cgiFormResultType cgiFormCheckboxSingle(
    char *name)
45 {
    cgiFormEntry *e;
```

```

    e = cgiFormEntryFindFirst(name);
    if (!e) {
        return cgiFormNotFound;
    }
5   return cgiFormSuccess;
}

extern cgiFormResultType cgiFormCheckboxMultiple(
10   char *name, char **valuesText, int valuesTotal,
    int *result, int *invalid)
{
    /* Implementation is identical to cgiFormSelectMultiple. */
    return cgiFormSelectMultiple(name, valuesText,
        valuesTotal, result, invalid);
15 }

cgiFormResultType cgiFormRadio(
    char *name,
    char **valuesText, int valuesTotal, int *result, int defaultV)
20 {
    /* Implementation is identical to cgiFormSelectSingle. */
    return cgiFormSelectSingle(name, valuesText, valuesTotal,
        result, defaultV);
}
25

void cgiHeaderLocation(char *redirectUrl) {
    fprintf(cgiOut, "Location: %s%c%c", redirectUrl, 10, 10);
}

30 void cgiHeaderStatus(int status, char *statusMessage) {
    fprintf(cgiOut, "Status: %d %s%c%c", status, statusMessage,
        10, 10);
}

35 void cgiHeaderContentType(char *mimeType) {
    fprintf(cgiOut, "Content-type: %s%c%c", mimeType, 10, 10);
}

#ifdef NO_SYSTEM
40
int cgiSaferSystem(char *command) {
    char *s;
    char *sp;
    int i;
45   int len = (strlen(command) * 2) + 1;
    s = (char *) malloc(len);
```

```

    if (!s) {
        return -1;
    }
    sp = s;
5   for (i=0; (i < len); i++) {
        if (command[i] == ';') {
            *sp = '\\';
            sp++;
        } else if (command[i] == '|') {
10          *sp = '\\';
            sp++;
        }
        *sp = command[i];
        sp++;
15    }
    *sp = '\\0';
    return system(s);
}

20 #endif /* NO_SYSTEM */

static int cgiWriteString(FILE *out, char *s);

static int cgiWriteInt(FILE *out, int i);
25 cgiEnvironmentResultType cgiWriteEnvironment(char *filename) {
    FILE *out;
    cgiFormEntry *e;
    /* Be sure to open in binary mode */
30    out = fopen(filename, "wb");
    if (!out) {
        /* Can't create file */
        return cgiEnvironmentIO;
    }
35    if (!cgiWriteString(out, cgiServerSoftware)) {
        goto error;
    }
    if (!cgiWriteString(out, cgiServerName)) {
        goto error;
    }
40    if (!cgiWriteString(out, cgiGatewayInterface)) {
        goto error;
    }
    if (!cgiWriteString(out, cgiServerProtocol)) {
45        goto error;
    }
}
```

```
if (!cgiWriteString(out, cgiServerPort)) {
    goto error;
}
if (!cgiWriteString(out, cgiRequestMethod)) {
5    goto error;
}
if (!cgiWriteString(out, cgiPathInfo)) {
    goto error;
}
10 if (!cgiWriteString(out, cgiPathTranslated)) {
    goto error;
}
if (!cgiWriteString(out, cgiScriptName)) {
    goto error;
15 }
if (!cgiWriteString(out, cgiQueryString)) {
    goto error;
}
if (!cgiWriteString(out, cgiRemoteHost)) {
20    goto error;
}
if (!cgiWriteString(out, cgiRemoteAddr)) {
    goto error;
}
25 if (!cgiWriteString(out, cgiAuthType)) {
    goto error;
}
if (!cgiWriteString(out, cgiRemoteUser)) {
    goto error;
30 }
if (!cgiWriteString(out, cgiRemoteIdent)) {
    goto error;
}
if (!cgiWriteString(out, cgiContentType)) {
35    goto error;
}
if (!cgiWriteString(out, cgiAccept)) {
    goto error;
}
40 if (!cgiWriteString(out, cgiUserAgent)) {
    goto error;
}
if (!cgiWriteInt(out, cgiContentLength)) {
    goto error;
45 }
e = cgiFormEntryFirst;
```

```
while (e) {
    if (!cgiWriteString(out, e->attr)) {
        goto error;
    }
5    if (!cgiWriteString(out, e->value)) {
        goto error;
    }
    e = e->next;
}
10 fclose(out);
return cgiEnvironmentSuccess;

error:
    fclose(out);
    /* If this function is not defined in your system,
15     you must substitute the appropriate
       file-deletion function. */
    unlink(filename);
    return cgiEnvironmentIO;
}

20 static int cgiWriteString(FILE *out, char *s) {
    int len = strlen(s);
    cgiWriteInt(out, len);
    if (fwrite(s, 1, len, out) != len) {
25         return 0;
    }
    return 1;
}

30 static int cgiWriteInt(FILE *out, int i) {
    if (!fwrite(&i, sizeof(int), 1, out)) {
        return 0;
    }
    return 1;
35 }

static int cgiReadString(FILE *out, char **s);

static int cgiReadInt(FILE *out, int *i);

40 cgiEnvironmentResultType cgiReadEnvironment(char *filename) {
    FILE *in;
    cgiFormEntry *e, *p;
    /* Free any existing data first */
45    cgiFreeResources();
    /* Be sure to open in binary mode */
```

```
in = fopen(filename, "rb");
if (!in) {
    /* Can't access file */
    return cgiEnvironmentIO;
5   }
    if (!cgiReadString(in, &cgiServerSoftware)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiServerName)) {
10   goto error;
    }
    if (!cgiReadString(in, &cgiGatewayInterface)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiServerProtocol)) {
15   goto error;
    }
    if (!cgiReadString(in, &cgiServerPort)) {
        goto error;
20   }
    if (!cgiReadString(in, &cgiRequestMethod)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiPathInfo)) {
25   goto error;
    }
    if (!cgiReadString(in, &cgiPathTranslated)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiScriptName)) {
30   goto error;
    }
    if (!cgiReadString(in, &cgiQueryString)) {
        goto error;
35   }
    if (!cgiReadString(in, &cgiRemoteHost)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiRemoteAddr)) {
40   goto error;
    }
    if (!cgiReadString(in, &cgiAuthType)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiRemoteUser)) {
45   goto error;
```



```

    }
    if (!cgiReadString(in, &cgiRemoteIdent)) {
        goto error;
    }
5   if (!cgiReadString(in, &cgiContentType)) {
        goto error;
    }
    if (!cgiReadString(in, &cgiAccept)) {
        goto error;
10  }
    if (!cgiReadString(in, &cgiUserAgent)) {
        goto error;
    }
    if (!cgiReadInt(in, &cgiContentLength)) {
15  goto error;
    }
    p = 0;
    while (1) {
        e = (cgiFormEntry *) malloc(sizeof(cgiFormEntry));
20     if (!e) {
            cgiFreeResources();
            fclose(in);
            return cgiEnvironmentMemory;
        }
25     if (!cgiReadString(in, &e->attr)) {
        /* This means we've reached the end of the list. */
        free(e);
        break;
    }
30     if (!cgiReadString(in, &e->value)) {
        free(e);
        goto error;
    }
    e->next = 0;
35     if (p) {
        p->next = e;
    } else {
        cgiFormEntryFirst = e;
    }
40     p = e;
    }
    fclose(in);
    cgiRestored = 1;
    return cgiEnvironmentSuccess;
45 error:
    cgiFreeResources();

```

```
        fclose(in);
        return cgiEnvironmentIO;
    }

5   static int cgiReadString(FILE *in, char **s) {
        int len;
        cgiReadInt(in, &len);
        *s = (char *) malloc(len + 1);
        if (!(*s)) {
10            return 0;
        }
        if (fread(*s, 1, len, in) != len) {
            return 0;
        }
15        (*s)[len] = '\0';
        return 1;
    }

    static int cgiReadInt(FILE *out, int *i) {
20        if (!fread(i, sizeof(int), 1, out)) {
            return 0;
        }
        return 1;
    }

25   static int cgiStrEqNc(char *s1, char *s2) {
        while(1) {
            if (!(*s1)) {
                if (!(*s2)) {
30                    return 1;
                } else {
                    return 0;
                }
            } else if (!(*s2)) {
35                return 0;
            }
            if (isalpha(*s1)) {
                if (tolower(*s1) != tolower(*s2)) {
40                    return 0;
                }
            } else if ((*s1) != (*s2)) {
                return 0;
            }
            s1++;
45            s2++;
        }
    }
```

```
    }

    static char *cgiFindTarget = 0;
    static cgiFormEntry *cgiFindPos = 0;
5
    static cgiFormEntry *cgiFormEntryFindFirst(char *name) {
        cgiFindTarget = name;
        cgiFindPos = cgiFormEntryFirst;
        return cgiFormEntryFindNext();
10    }

    static cgiFormEntry *cgiFormEntryFindNext() {
        while (cgiFindPos) {
            cgiFormEntry *c = cgiFindPos;
15            cgiFindPos = c->next;
            if (!strcmp(c->attr, cgiFindTarget)) {
                return c;
            }
        }
20        return 0;
    }

    static int cgiFirstNonspaceChar(char *s) {
        int len = strspn(s, " \n\r\t");
25        return s[len];
    }

    void cgiStringArrayFree(char **stringArray) {
        char *p;
30        p = *stringArray;
        while (p) {
            free(p);
            stringArray++;
            p = *stringArray;
35        }
    }
```

File: listen.c

```

#include <stdio.h>
5  #include <sys/types.h>
   #include <sys/socket.h>
   #include <linux/in.h>
   #include <netdb.h>

10
   /*
   Set captionsocket in BSD services file to a socketnumber
   9999 for example
   */

15
   /* Relay across socket to Manfred's access,
   could be simple socket, httpd on socket 80,
   or even fake an odbc!!! since we need only select!!! */

20
   struct sockaddr_in theaddr = { AF_INET };

   socket_listen()
   {
25       struct servent *serv, *getservbyname();
       struct hostent *host, *gethostbyname();
       int ss, ns, length;
       char ipbuf[44];

30       if( (ss=socket(AF_INET, SOCK_STREAM, 0)) < 0 )
       {
           puts("\nsocket() failed.");
           return(0);
       }

35
       /* look up the address of the local host */
       host = gethostbyname("localhost");
       if( host == (struct hostent *)0 )
       {
40           puts("\nFailed to get host ip address for this name: \"caption\"");
           return(0);
       }
       bcopy(host->h_addr, (char *)&theaddr, host->h_length);

45       theaddr.sin_family = AF_INET;
```

```
length = sizeof(theaddr);
if (getsockname(ss, (struct sockaddr *)&theaddr, &length) == -1)
{
    close(ss);
5    puts("Bad address for socket.");
    return(0);
}

10    if( (serv = getservbyname("captionsocket","tcp")) == 0 )
    {
        close(ss);
        puts("/etc/services does not have socket caption registered.");
        return(0);
    }
15    /*theaddr.sin_port = 0;*/
    theaddr.sin_port = serv->s_port;

    if( bind(ss, (struct sockaddr *)&theaddr, sizeof(theaddr)) < 0)
    {
20        puts("\nbind() failed.");
        close(ss);
        return(0);
    }

25    if( listen(ss,(int)1) < 0 )
    {
        puts("\nlisten() failed.");
        return(0);
    }

30    if( (ns=accept(ss, 0, 0)) < 0 )
    {
        puts("\naccept() failed.");
        return(0);
    }
35    close(ss);

    return(ns);
40 }
```

File: Makefile

```
5  #You may wish to add -DNO_UNISTD and -DNO_SYSTEM to CFLAGS if
   #your system lacks the /usr/include/unistd.h header file
   #or the system() function, respectively.

   CFLAGS      = -O -DHUU -DAUTOCONNECT
   LDFLAGS     = -s

10

   $(NATEXES):$$@.c
       $(CC) $(CFLAGS) -o $$@ $? $(LDFLAGS)

15  all: captionsock

   captionsock: captionsock.o
       gcc captionsock.o -o captionsock
```